

Supplemental Materials for Peoria Unified School District’s Software Development Program of Study

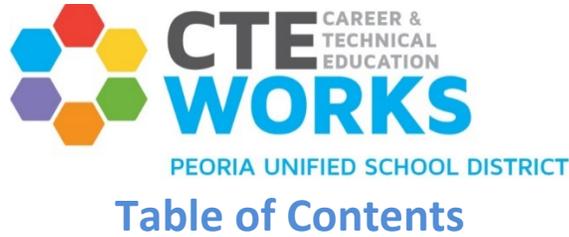


Table of Contents

Appendix A: Letters of Recommendation from Educational Partners	2
Appendix B: Letters of Recommendation from Business Partners/Employers	4
Appendix C: Stackable Credentials.....	6
Appendix D: Certificate & AAS in Computer Information Systems to Bachelors.....	7
Appendix E1: Certificate and AAS in Game Technology	17
Appendix E2: Certificate and AAS in Program & System Analysis	22
Appendix F: Peoria Unified School District’s Total CTE Program Model.....	27
Appendix G: Peoria Unified School District Guide and Six Career Fields with CTE Programs.....	28
Appendix H: Peoria CTE Communication & Information Systems.....	41
Appendix I: Peoria CTE Graduation Endorsement	42
Appendix J: Peoria’s Software Development Programs Cut Sheet.....	43
Appendix K: Peoria's Career and College Day.....	45
Appendix L: Peoria CTE Student Wheel	47
Appendix M: CTE Week.....	49
Appendix N: School Bus Side Ads.....	50
Appendix O: Arizona Programs of Study Marketing Materials.....	55
Appendix P: Pictures of Software Development Program	58
Appendix Q: Big Picture Booklet	63
Appendix R: Application Booklet	81
Appendix S: School and District Program Quick Reference Guides.....	88
Appendix T: Pictures and Articles	97

Appendix A: Letters of Recommendation from Educational Partners



**GLENDALE
COMMUNITY COLLEGE**
A MARICOPA COMMUNITY COLLEGE

Dual Enrollment

6000 W. Olive Avenue, Glendale, AZ 85302 • 623.845.5000 • www.gccaz.edu

November 13, 2018

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 Software Development and Advanced Software Development program being submitted to NASDCTEc for the Excellence in Action Award.

As early as 2011, Glendale Community College (GCC) partnered with PUSD by offering college credit in the form of dual enrollment with PUSD's CTE high school Software Development and Advanced Software Development Program courses. Students are eligible to earn up to 12 college credits that may be applied to an associate's and/or certificate within the field.

Beginning with 2013 high school graduates through 2017, 96 students earned college credit through dual enrollment for Software Development and Advanced Software Development and of the 96 students, 8 have earned a certificate and 8 earned an Associate's in Arts/Science degree.

Creating pathways like this has reduced the amount of time a student is in college and prepares the student for career success. The efforts of PUSD in creating pathways to post-secondary successes is to be commended. Glendale Community College is proud of the efforts of PUSD in developing pathways and maximizing student achievement efforts that also contribute to productive communities and businesses at large.

Sincerely,

A handwritten signature in cursive script that reads "Michele Ujke".

Michele Ujke
Dual Enrollment Coordinator
Glendale Community College



MARICOPA
COMMUNITY COLLEGES

Chandler-Gilbert | Estrella Mountain | GateWay | Glendale | Mesa
Paradise Valley | Phoenix | Rio Salado | Scottsdale | South Mountain

GRAND CANYON UNIVERSITY™

FIND YOUR PURPOSE

To Whom It May Concern:

This letter is in support of Peoria High School District's consistent approach to developing a community in which computational thinking, computer science and software development is nurtured and aligned with student success. Since working with the district over a year ago, they work with us as post-secondary partners. We've hosted their Advisory Board on our campus, attended their board meetings in other industry locations, hosted professional development for their teachers in our Code.org Computer Science Teachers cohort, and provided tours and activities for students and teachers in the areas of STEM.

I highly recommend working with the district, specifically, Ken Mattern, who has often gone above and beyond in working with our university to bring high quality education to teachers and students who are dabbling and proficient in software development. They are open to new ideas regarding technology integration such as Cybersecurity, Video Game Design curriculum and continue to push the envelope when it comes to furthering computer science education on their campuses. I can't say enough about this partnership with industry and education and am fortunate to be a part of it. I look forward to more innovation and cutting-edge educational technology as the students of Peoria become tomorrow's industry leaders and post-secondary STEM graduates.

Sincerely,

Corinne C. Araza

Corinne C. Araza
Director, K12 STEM Outreach and Program Development
Grand Canyon University
3100 West Camelback Road
Phoenix, AZ 85017
602.527.7416

Appendix B: Letters of Recommendation from Business Partners/Employers



American Express Technology
3202 W. Behrend Drive
MC: 36-08-22
Phoenix, AZ 85027

CTSA Conference Committee

Dear Committee Member,

Thank you for the opportunity for me to encourage you to consider the Peoria School District's (PUSD) Career and Technical Education (CTE) program for recognition and to present at your outstanding conference. It has been our American Express Technology team's great pleasure to partner with PUSD CTE for the past 10 years, helping guide the program's outstanding educators and students toward success within our exciting technology industry.

Some of the examples of our partnership begin with our regular advisory council sessions, where subject matter experts from the industry collaborate with our teachers, on topics such as relevancy of curriculum, community event planning to encourage young minds to explore technology, helping students build presentation and communication skills, and sharing how business teams are driving innovation through tools, process, and skills, and how to build similar concepts into our CTE program. For example, Agile Development and team-based project learning are two of our most recent discussions.

We've taken these ideas back to the classrooms, with the teachers regularly inviting industry experts to visit students and talk about what career options are available, what to think about during their college careers, and how to begin implementing the latest software development practices even into their High School projects.

We have contributed to the wildly popular and successful annual CTE career day, which allows HS younger aged students and their parents to not only visit the actual classrooms of the CTE programs, but speak directly with industry professionals and teachers about why the topics provide career value for them, and even get "hands-on" with the programs through demos.

We also have provided Intern opportunities for PUSD CTE graduates, with one highlight of a college Freshman CTE-grad intern implementing an Amazon Alexa-based American Express quiz through a Raspberry Pi (faster than an Ivy league grad was able to complete the project!). This served as a motivating factor for AXP building our own Amazon Alexa skill in 2017.

We also regularly coach and mentor CTE students through competitive events including Zero-Robotics and Future Business Leader (FBLA) projects, and we're not at all surprised that thanks to the excellent teachers and programs of CTE, many of these students and teams have won local, state, national, and international competitions, even when we are after-school clubs competing against schools with classes dedicated to programming and robotics!

From my perspective as a corporate leader coordinating volunteers for PUSD CTE, I can assure you that the benefits are not all one-way to the students. My teams and I are constantly inspired by the energy and enthusiasm of our students and our outstanding teachers and administration. Mentoring students allows our colleague population at American Express to grow their own leadership and coaching talents outside of our challenging corporate environment, and strengthens our corporate bond with the community and teachers. My personal favorite side benefit is that it's been the easiest and fastest way for me to grow my personal career network, and I have made lasting friends with teachers and students that I hope last my lifetime!

Thank you for hosting this terrific conference, and enabling educators to share ideas and continue the growth of this beloved teaching profession!

Warm Regards,

Kerry Kane
Director, Business Information Security Office
American Express Technology
Kerry.kane@aexp.com
602-639-0674



INFORMATION TECHNOLOGY

MEMORANDUM

DATE: November 15, 2018

TO: Ken Mattern, CTE Instructor, Peoria Unified School District

FROM: John Imig, IT Director/CTO

SUBJECT: PUSD CTE/Internship Program

Ken – I am writing this memo in support of the Peoria Unified School District's CTE and Internship programs. The City of Peoria Information Technology Department has been a supporter and contributor to these programs for several years, in hopes that young people may gain an interest in furthering their technical education through CTE and/or Internships. We have had several young people participate in this program over the years in hopes that they would gain a greater insight into technology and government, and have always found them eager to learn and have great potential for future success. Please continue your great work in these programs and reach out if you need additional information.

Regards,
John

Appendix C: Stackable Credentials

Students can stack the following Industry Credentials within the Software Development Programs:

- Advanced Software Development
- Software Development with Game Design Emphasis

COMMUNICATION & INFORMATION SYSTEMS
ADVANCED SOFTWARE
 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 azprogramsstudy.org.

HIGH SCHOOL	Dual Enrollment
CERTIFICATION HS	Software Development Fundamentals MTA <small>Microsoft Technology Associate (learned in HS)</small>
CERTIFICATION	Computer Information Systems CCL <small>(Certificate of Completion)</small>
UNDERGRAD	Associate of Applied Science in Computer Information Systems
UNDERGRAD	Bachelor of Science in Computer Science
GRADUATE	Masters In Computer Science

COMMUNICATION & INFORMATION SYSTEMS
SOFTWARE DEVELOPMENT
 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 azprogramsstudy.org.

HIGH SCHOOL	Dual Enrollment
CERTIFICATION HS	Gaming Development MTA <small>Microsoft Technology Associate (learned in HS)</small>
CERTIFICATION	Game Technology CCL (Certificate of Completion)
CERTIFICATION	Programming & Systems Analysis CCL <small>(Certificate of Completion)</small>
UNDERGRAD	Associate of Applied Science in Programming & System Analysis
UNDERGRAD	Bachelor of Science in Computer Science
GRADUATE	Masters In Computer Science

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

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

Students can earn 9 to 15 dual enrollment in the **Advanced Software Development Program** credits toward Certificate of Completion in Computer Information Systems, Associate of Applied Science in Computer Information Systems and/or Bachelors of Science in Computer Science.

Students can earn 9 to 15 dual enrollment in the **Software Development Program** credits toward Certificate of Completion in Game Technology or Program & System Analysis; Associate of Applied Science in Programming & System Analysis and/or Bachelors of Science in Computer Science.

Appendix D: Certificate & AAS in Computer Information Systems to Bachelors



Computer Information Systems

Major: 5671	Primary College: Phoenix College
First Term: 2017 Fall	Program Availability: Shared by: GCC GWC PC
Final Term: Current	Occupational Area: Information Technology
Award: CCL	Instructional Council: Computer Information Systems (12)
Total Credits: 21	GPA: 2.00
CIP Code: 11.0101	
SOC Code: 11-3021, 15-1111, 15-1121, 15-1141, 15-1142, 15-1143, 15-1199, 25-1021	

Description: The Certificate of Completion (CCL) in Computer Information Systems program is designed to meet the needs of students who are planning to find employment using current computer applications. It is intended for students who may later want to pursue an Associate's Degree in Computer Information Systems, but who do not expect to go beyond the community college program. Students will get experience with a variety of operating systems, database management, and popular programming languages. An Associate in Applied Science (AAS) is also available.

Consumer Program Costs and Career Information: [GC](#), [GW](#), [PC](#)

Suggested Course Plan Sequenced by Semester: [GC](#), [GW](#), [PC](#)

Program Notes:

+ indicates course has prerequisites and/or corequisites.
 ++ indicates any suffixed course.
 Students must earn a grade of "C" or better in all courses required within the program.
 Consultation with an Academic Advisor is recommended for course selection.

Program Prerequisites: None

Required Courses

CIS105 Survey of Computer Information Systems 3	Credits: 12
CIS133DA Internet/Web Development Level I 3	
CIS126DA UNIX Operations System (3) OR CIS126DL Linux Operating System (3) OR + MST150++ Any Microsoft Windows course (3) 3	
+ CIS150 Programming Fundamentals (3) OR + CIS150AB Object-Oriented Programming Fundamentals (3) 3	

Restricted Electives

CIS163IA
CIS159
CIS151 **Credits:**

~~Students may use Computer Information Systems courses, except courses used to satisfy Required Courses area.~~

Program Competencies

1. Apply computer concepts, microcomputer applications, and programming techniques. (CIS105)
2. Explain and use various Internet communication, resources discovery, and information retrieval tools. (CIS133DA)
3. Identify and define the major components of an operating system, both hardware and software. (CIS126DA, CIS126DL, MST150++)
4. Design algorithms for simple business problems. (CIS150, CIS150AB)

MCCCD Governing Board Approval Date: June 27, 2017

All information published is subject to change without notice. Every effort has been made to ensure the accuracy of information presented, but based on the dynamic nature of the curricular process, course and program information is subject to change in order to reflect the most current information available.

Computer Information Systems

Major: 3152	Primary College: Phoenix College
First Term: 2017 Fall	Program Availability: Shared by: GCC GWC PC
Final Term: Current	Occupational Area: Information Technology
Award: AAS	Instructional Council: Computer Information Systems (12)
Total Credits: 61-67	GPA: 2.00
CIP Code: 11.0101	
SOC Code: 11-3021, 15-1111, 15-1121, 15-1141, 15-1142, 15-1143, 15-1199, 25-1021	

Description: The Associate in Applied Science (AAS) degree in Computer Information Systems program is designed to prepare students who are planning to find employment using current computer applications. Students will get experience with a variety of operating systems, database management, and popular programming languages. A Certificate of Completion (CCL) is also available.

Suggested Course Plan Sequenced by Semester: [GC](#), [GW](#), [PC](#)

Program Notes:

+ indicates course has prerequisites and/or corequisites.

++ indicates any suffixed courses.

Students must earn a grade of "C" or better in all courses required within the program.

Consultation with an Academic Advisor is recommended for course selection.

Program Prerequisites: None

Required Courses

Credits: 27-28

ACC111 Accounting Principles I 3

CIS105 Survey of Computer Information Systems 3

CIS133DA Internet/Web Development Level I 3

CIS126DA UNIX Operating System (3) OR

CIS126DL Linux Operating System (3) OR

+ MST150++ Any Microsoft Windows course (3) 3

+ CIS150 Programming Fundamentals (3) OR

+ CIS150AB Object-Oriented Programming Fundamentals (3) 3

+ CIS159 Visual Basic Programming I (3) OR

+ CIS162++ Any C Programming Level I course (3) OR

+ CIS163AA Java Programming: Level I (3) 3

+ CIS190 Introduction to Local Area Networks (3) OR

CNT140AA Introduction to Networks (4) OR

MST140 Microsoft Networking Essentials (3) 3-4

GBS151 Introduction to Business 3
+ GBS233 Business Communication 3

Restricted Electives

~~CIS++++~~ Any CIS Computer Information course(s) except courses used to satisfy Required Courses area. **Credits: 9 of 12**

General Education Requirements

General Education Requirement **Credits: 22-27**

General Education Core **Credits: 12-17**

First-Year Composition **Credits: 6**

- + ENG101 First-Year Composition (3) OR
 - + ENG107 First-Year Composition for ESL (3) AND
 - + ENG102 First-Year Composition (3) OR
 - + ENG108 First-Year Composition for ESL (3) 6
-

Oral Communication **Credits: 3**

Any approved general education course in the Oral Communication area.

Critical Reading **Credits: 0-3**

- + CRE101 College Critical Reading and Critical Thinking (3) OR
 - Equivalent by assessment 0-3
-

Mathematics **Credits: 3-5**

- + MAT120 Intermediate Algebra (5) OR
 - + MAT121 Intermediate Algebra (4) OR
 - + MAT122 Intermediate Algebra (3) OR
 - Satisfactory completion of a higher level mathematics course.
-

General Education Distribution **Credits: 10**

Humanities, Arts and Design **Credits: 3**

Any approved general education course in the Humanities, Arts and Design area.

Social-Behavioral Sciences **Credits: 3**

ECN211 Macroeconomic Principles (3) OR
ECN212 Microeconomic Principles (3) OR
SBU200 Society and Business (3) 3

Natural Sciences

Credits: 4

Any approved general education course in the Natural Sciences area.

Program Competencies

1. Identify and describe the fundamental principles and practices of accounting. (ACC111)
2. Apply computer concepts, microcomputer applications, and programming techniques. (CIS105)
3. Explain and use various Internet communication, resources discovery, and information retrieval tools. (CIS133DA)
4. Identify and define the major components of an operating system, both hardware and software. (CIS126DA, CIS126DL, MST150++)
5. Design algorithms for simple business problems. (CIS150, CIS150AB)
6. Use appropriate Visual Basic forms, tools, and language components to code solutions for various problems. (CIS159)
7. Write, debug, document, and execute programs in a C programming language to solve a variety of business problems. (CIS162++, CIS163AA)
8. Describe various LAN topologies and the benefits, uses, and problems associated with them. (CIS190, CNT140AA, MST140)
9. Describe the fundamental characteristics and functions of business in today's environment. (GBS151)
10. Create and analyze internal and external business communications, including various verbal and nonverbal techniques. (GBS233)

MCCCD Governing Board Approval Date: June 27, 2017

All information published is subject to change without notice. Every effort has been made to ensure the accuracy of information presented, but based on the dynamic nature of the curricular process, course and program information is subject to change in order to reflect the most current information available.

Admission

[Home](#)
[Admission info ▾](#)
[Academics ▾](#)
[Cost and aid ▾](#)
[Campus life ▾](#)
[Visit ▾](#)
[Contact ▾](#)
[Apply](#)
[Request info](#)

AAS to BAS for Glendale Community College

Bachelor of Applied Science (BAS) degrees are designed specifically for students who have earned an Associate of Applied Science from a regionally accredited institution.

Students who have earned an Associate of Applied Science from a regionally accredited institution may transfer 60 credit hours toward the Bachelor of Applied Science degree. Students who have earned an Associate of Applied Science degree from a regionally accredited Arizona community college may be eligible to transfer up to 75 credits toward the Bachelor of Applied Science degree. Students pursuing the 75 credit option may have more than 45 credit hours to complete their BAS upon transfer to ASU. Students should work with their academic advisor to ensure their courses will meet degree requirements. .

Please select the AAS degree that you are currently earning at your community college.

- [Accounting Paraprofessional](#)
- [Administration of Justice](#)
- [Advanced Behavioral Health Sciences](#)
- [Audio Production Technologies](#)
- [Automotive Technology](#)
- [Behavioral Sciences](#)
- [Biotechnology and Molecular Biosciences](#)
- [Business Office Computer Applications](#)
- [CAD Technology](#)
- [Computer and Networking Technology](#)
- [Computer Information Systems](#)
- [Digital Cinema Arts](#)
- [Digital Media Arts](#)
- [Early Childhood Administration and Management](#)

Admission

[Home](#)
[Admission info ▾](#)
[Academics ▾](#)
[Cost and aid ▾](#)
[Campus life ▾](#)
[Visit ▾](#)
[Contact ▾](#)
[Apply](#)
[Request info](#)

AAS to BAS for Glendale Community College

AAS in Computer Information Systems

ASU degrees you may be interested in.

Major	College name	Campus
Applied Science	Interdisciplinary Arts & Sciences, New College of	West campus
Applied Science (Applied Leadership)	Integrative Sciences and Arts, College of	Polytechnic campus, COCHS, CAC, Eastern Arizona College, YAVAP, ASU Online
Applied Science (Health Entrepreneurship and Innovation)	Nursing and Health Innovation, College of	Downtown Phoenix campus, West campus, ASU Online
Applied Science (Technical Communication)	Integrative Sciences and Arts, College of	Polytechnic campus

2018 - 2019 Major Map

Computer Information Systems, BS

School/College: W. P. Carey School of Business

Location: Tempe campus

BACISBS

FT Fast Track Options: 3 Year

A student must speak with an advisor in order to be added to a fast track plan.

Term 1 0 - 16 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 WPC 101: Student Success in Business	1		<ul style="list-style-type: none"> • An SAT, ACT, Accuplacer, IELTS or TOEFL score determines placement into first-year composition courses • ASU Mathematics Placement Assessment score determines placement in mathematics course • ASU 101 or college-specific equivalent First-Year Seminar required of all freshman students. WPC 101 is the W. P. Carey School course that meets this requirement • Join a student club or organization • Organize and track your activities, events, and experiences with WPC 360 • Create your first college resume
CIS 105: Computer Applications and Information Technology (CS)	3	C	
MAT 210: Brief Calculus (MA)	3	C	
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	C	
SOC OR PSY course (SB)	3		
Humanities, Arts and Design (HU) AND Historical Awareness (H)	3		
 Minimum 2.00 GPA ASU Cumulative.			
Term hours subtotal:	16		

Term 2 16 - 31.25 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
MAT 211: Mathematics for Business Analysis	3	C	<ul style="list-style-type: none"> • Failure to successfully complete business skills courses in specified term may lead to a delay in graduation. See your academic advisor for more information and options. • Attend W. P. Carey and ASU Career Fairs • Continue using WPC 360 • Join the W. P. Carey mentorship programs • Explore student leadership opportunities in W. P. Carey
ECN 211: Macroeconomic Principles (SB) OR ECN 212: Microeconomic Principles (SB)	3	C	
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	C	
WPC Career Preparation Course	0.25		
COM 100: Introduction to Human Communication (SB) OR COM 225: Public Speaking (L) OR COM 230: Small Group Communication (SB) OR COM 259: Communication in Business and the Professions	3		
SOC OR PSY course (SB)	3		
 Complete CIS 105 with a grade of "C" or better.			
 Complete MAT 210 with a grade of "C" or better.			
 Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
 Minimum 2.00 GPA ASU Cumulative.			
Term hours subtotal:	15.25		

Term 3 31.25 - 47.50 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
ACC 231: Uses of Accounting Information I	3	C	<ul style="list-style-type: none"> • Failure to successfully complete business skills courses in specified term may lead to a
ECN 221: Business Statistics (CS)	3	C	

ECN 211: Macroeconomic Principles (SB) OR ECN 212: Microeconomic Principles (SB)	3	C
WPC Career Preparation Course	0.25	
Natural Science - Quantitative (SQ)	4	
General Studies Elective	3	
◆ Complete MAT 211 with a grade of "C" or better.		
◆ Complete ECN 211 OR ECN 212 with a grade of "C" or better.		
◆ Minimum 2.00 GPA ASU Cumulative.		
Complete Mathematics (MA) requirement.		
Term hours subtotal:	16.25	

- delay in graduation. See your **academic advisor** for more information and options.
- Explore **career resources**.
- Meet with your **W. P. Carey Career Coach**

Term 4 47.50 - 61.50 Credit Hours Critical course signified by ◆	Hours	Minimum Grade	Notes
◆ CIS 235: Introduction to Information Systems	3	C	<ul style="list-style-type: none"> • Failure to successfully complete business skills courses in specified term may lead to a delay in graduation. See your academic advisor for more information and options. • Attend W. P. Carey and ASU career fairs • Apply for internships or create one • Develop your professional online presence
ACC 241: Uses of Accounting Information II	3	C	
Cultural Diversity in the U.S. (C)	3		
Natural Science - General (SG) OR Natural Science - Quantitative (SQ)	4		
Elective	1		
◆ Complete ACC 231 with a grade of "C" or better.			
◆ Complete ECN 221 with a grade of "C" or better.			
◆ Minimum 2.00 GPA ASU Cumulative.			
Term hours subtotal:	14		

Term 5 61.50 - 76.75 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ CIS 340: Business Information System Development I	3	C	<ul style="list-style-type: none"> • Students pursuing concurrent degrees within W. P. Carey cannot share coursework in the major. Major coursework must be unique to each degree program. • Failure to successfully complete business skills courses in specified term may lead to a delay in graduation. See your academic advisor for more information and options. • Meet with your W. P. Carey Career Coach • Update your resume
★ CIS 365: Business Database Systems Development	3	C	
SCM 300: Global Supply Operations	3	C	
MKT 300: Marketing and Business Performance	3	C	
WPC Career Preparation Course	0.25		
ENG 302: Business Writing (L)	3		
★ Complete ACC 241 with a grade of "C" or better.			
Term hours subtotal:	15.25		

Term 6 76.75 - 91.75 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ CIS 345: Business Information System Development II	3	C	<ul style="list-style-type: none"> • Complete informational interviews • Complete an in person or virtual practice interview with your W. P. Carey Career Coach
★ CIS 425: Web Technologies for the Enterprise	3	C	
Upper Division International Business Course AND Global Awareness (G)	3	C	
WPC 300: Problem Solving and Actionable Analytics	3	C	
General Studies Elective	3		
★ Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).			
Term hours subtotal:	15		

Term 7 91.75 - 106.75 Credit Hours Necessary course signified by	Minimum
--	---------

	Hours	Grade	Notes
★ CIS 401: Managing Cyber Risks in Enterprise Business Processes	3	C	<ul style="list-style-type: none"> • All Upper Division Business Core Classes (including International Business Course) must be completed before enrolling in WPC 480 • Attend W. P. Carey and ASU Career Fairs • Gather professional references • Update your resume
★ CIS 430: Mobile Platforms for Business	3	C	
FIN 300: Fundamentals of Finance	3	C	
MGT 300: Organization and Management Leadership	3	C	
LES 305: Business Law and Ethics for Managers	3	C	
Term hours subtotal:	15		

Term 8 106.75 - 120.00 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes
★ CIS 440: Capstone in Information Systems (I)	3	C	<ul style="list-style-type: none"> • Apply for full-time career opportunities
★ WPC 480: W. P. Carey Capstone Course (I)	3	C	
WPC Career Preparation Course	0.25		
Upper Division Humanities, Arts and Design (HU)	3		
General Studies Elective	3		
Elective	1		
Term hours subtotal:	13.25		

- Courses that qualify as meeting the General Studies course requirements can be any non-business university General Studies course (C, CS, G, H, HU, L, MA, SB, SG, SQ) or any course from the additional lists below. Please consult the Schedule of Classes for prerequisite requirements before registration to determine if you are eligible to take the course.

Hide Course List(s)/Track Group(s)

WPC Career Preparation Courses (1 credit hr total)	WPC Career Preparation Courses - Transfer Student Track (1 credit hr total)	Upper Division International Business Course-select one course (3 credit hours)
WPC 148: Freshman Career Preparation	WPC 347: Intermediate Career Preparation	AGB 302: International Management and Agribusiness (G)
WPC 248: Sophomore Career Preparation	WPC 348: Junior Career Preparation	ECN 306: Survey of International Economics (SB & G)
WPC 348: Junior Career Preparation	WPC 448: Intensive Career Preparation or WPC 449: Campus to Career	MGT 302: Principles of International Business (G)
WPC 448: Intensive Career Preparation or WPC 449: Campus to Career		MKT 425: Global Marketing Management (G)
		SCM 463: Global Supply Chain Management (G)
General Studies Electives	General Studies Electives Continued	
ARB 101: Elementary Arabic I	LAT 101: Elementary Latin	
ARB 102: Elementary Arabic II	LAT 102: Elementary Latin	
BIO 320: Fundamentals of Ecology	MAT 242: Elementary Linear Algebra	
CHI 205: Chinese Calligraphy	MAT 243: Discrete Mathematical Structures	
COM 207: Introduction to Communication Inquiry	MAT 310: Introduction to Geometry	

COM 259: Communication in Business and the Professions	MAT 342: Linear Algebra
COM 281: Communication Activities	MAT 362: Advanced Mathematics for Engineers and Scientists
COM 310: Relational Communication	MAT 370: Intermediate Calculus
COM 312: Communication, Conflict, and Negotiation	MAT 371: Advanced Calculus I
COM 317: Nonverbal Communication	MAT 372: Advanced Calculus II
COM 341: Social Contexts for Performance	MAT 410: Introduction to General Topology
COM 414: Crisis Communication	MAT 415: Introduction to Combinatorics
COM 430: Leadership in Group Communication	MAT 416: Introduction to Graph Theory
COM 453: Communication Training and Development	MAT 442: Advanced Linear Algebra
COM 465: Intercultural Communication Workshop	MAT 443: Introduction to Abstract Algebra
ENG 210: Introduction to Creative Writing	MAT 444: Intermediate Abstract Algebra
ENG 213: Introduction to the Study of Language	MAT 445: Theory of Numbers
ENG 310: Intermediate Creative Writing	MAT 460: Vector Calculus
ENG 314: Modern Grammar	MAT 461: Applied Complex Analysis
ENG 345: Selected Authors or Issues	MAT 462: Applied Partial Differential Equations
FAS 301: Introduction to Parenting	MAT 472: Intermediate Real Analysis I
FRE 111: Fundamentals of French	MAT 475: Differential Equations
FRE 472: Franco-Canadian Civilization	MAT 485: History of Mathematics
GCU 433: Geography of Southeast Asia	POR 101: Elementary Portuguese
GER 111: Fundamentals of German	ROM 101: Elementary Romanian
GRK 101: Elementary Ancient Greek	ROM 201: Intermediate Romanian
GRK 201: Intermediate Ancient Greek	ROM 313: Romanian Composition and Conversation
HST 389: Japan Society and Values/Period	ROM 314: Romanian Composition and Conversation
IDN 101: Elementary Indonesian I	RUS 101: Elementary Russian I
IDN 102: Elementary Indonesian II	RUS 102: Elementary Russian II
JPN 206: Japanese Calligraphy	SHS 101: American Sign Language I
JPN 414: Introduction to Classical Japanese	SHS 102: American Sign Language II
KOR 101: First-Year Korean I	SHS 201: American Sign Language III
KOR 102: First-Year Korean II	SHS 202: American Sign Language IV
	SPA 101: Elementary Spanish I
	SPA 102: Elementary Spanish
	SPA 111: Fundamentals of Spanish
	SPA 434: Drama of the Golden Age

SPA 454: 19th-Century Spanish American
Narrative

SPA 456: 20th-Century Spanish American
Fiction

SPA 486: Chicano/a Novel: *Áltimea*, *Rafa* y
Lulu

THA 101: Elementary Thai I

THA 102: Elementary Thai II

Total Hours: 120.00

Upper Division Hours: 50 minimum

Major GPA: 2.00 minimum

Cumulative GPA: 2.00 minimum

Total hrs at ASU: 30 minimum

Hrs Resident Credit for

Academic Recognition: 56 minimum

Total Community College Hrs: 64 maximum

General University Requirements Legend

General Studies Core Requirements:

- Literacy and Critical Inquiry (L)
- Mathematical Studies (MA)
- Computer/Statistics/Quantitative Applications (CS)
- Humanities, Arts and Design (HU)
- Social-Behavioral Sciences (SB)
- Natural Science - Quantitative (SQ)
- Natural Science - General (SG)

General Studies Awareness Requirements:

- Cultural Diversity in the U.S. (C)
- Global Awareness (G)
- Historical Awareness (H)

First-Year Composition

General Studies designations listed on the major map are current for the 2018 - 2019 academic year.

Appendix E1: Certificate and AAS in Game Technology



Game Technology

Major: 5637	Initiating College: Glendale Community College
First Term: 2018 Fall	Program Availability: Shared by: GCC MCC
Final Term: Current	Occupational Area: Information Technology
Award: CCL	Instructional Council: Computer Information System (12)
Total Credits: 28	GPA: 2.00
CIP Code: 50.0411	
SOC Code: 27-1014.00	

Description: The Certificate of Completion (CCL) in Game Technology is a discipline that includes the development and management of dynamic environments for games and related visualization applications. The Certificate of Completion in Game Technology is designed to help prepare students for opportunities with studios, corporations, organizations, educational institutions, government agencies, advertising and entertainment industries that require visual and interactive content to support, enhance, entertain and/or market their product or service.

Consumer Program Costs and Career Information: [GC](#), [MC](#)

[Suggested Course Plan Sequenced by Semester](#)

Program Notes:

Students must earn a grade of "C" or better for all courses within the program.
+ indicates course has prerequisites and/or corequisites.

Program Prerequisites: None

Required Courses

Credits: 25

CIS105 Survey of Computer Information Systems 3
+CIS107 The Electronic Game Industry 3
+CIS151 Computer Game Development I Level I 3

+ART170 Three-Dimensional Computer Design (3) OR
CIS130DA 3D Studio Max: Modeling (3) 3

+ADA/ART/MMT184 Computer Animation (3) OR
CIS130DB 3D Studio Max: Animation (3) 3

CIS120DC Adobe Animate: Digital Animation 3

CIS120DF Adobe Photoshop Level I: Digital Imaging (3) OR
CIS120DG Computer Graphics: Macromedia Fireworks (3) 3

+CIS220DC Advanced Web Programming with Macromedia Flash 3
+CIS108 Electronic Portfolio Development 1

Restricted Electives

+CIS150AB Object-Oriented Programming Fundamentals 3 **Credits: 3**
+MMT216 Multimedia Project Management 3
+MTC/TCM120 Introduction to Sound Design for Film and Video 3
CIS120DB Computer Graphics: Adobe Illustrator 3
CIS224 Project Management Microsoft Project for Windows 3

Program Competencies

1. Create models using advanced modeling techniques to develop characters, environments, objects, and other content for interactive media. (ART/ADA170, CIS130DA)
 2. Produce animated characters and objects using advanced animation techniques, based from pre-production material such as sketches, character sheets, and storyboards. (ADA/ART/MMT184, CIS130DB)
 3. Demonstrate CIS/Computer concepts and programming techniques. (CIS105)
 4. Explain and describe the electronic game industry, including history, market, distribution, publishing channels, business models, team roles, and career landscape. (CIS107)
 5. Perform the basic steps for image correction, texture creation, and creating bitmap images using Adobe Photoshop or Adobe Fireworks. (CIS120DF, BPC120DG)
 6. Apply advanced animation techniques in the creation and editing of Flash animation graphics. (CIS120DC)
 7. Apply advanced scripting and object oriented programming concepts in the creation, and manipulation of Interactive Flash applications. (CIS220DC)
 8. Explain and describe Game Software Development Tools and apply scripting Object Oriented Development Tools to design and develop game programs. (CIS151)
 9. Create an electronic portfolio of work. (CIS108)
-

MCCCD Governing Board Approval Date: February 24, 2015

All information published is subject to change without notice. Every effort has been made to ensure the accuracy of information presented, but based on the dynamic nature of the curricular process, course and program information is subject to change in order to reflect the most current information available.

Fre

Game Technology

Major: 3145	Initiating College: Mesa Community College
First Term: 2018 Fall	Program Availability: Shared by: MCC
Final Term: Current	Occupational Area: Information Technology
Award: AAS	Instructional Council: Computer Information System (12)
Total Credits: 62	GPA: 2.00
CIP Code: 50.0411	
SOC Code: 27-1014	

Description: The Associate in Applied Science (AAS) in Game Technology is a discipline that includes the development and management of dynamic environments for games and related visualization applications. The Associate of Applied Science in Game Technology will help prepare students for entry-level career opportunities with studios, corporations, organizations, educational institutions, government agencies, advertising and entertainment industries that require visual and interactive content to support, enhance entertain and/or market their product or service.

The curriculum brings together business concepts and game technology to prepare students for careers as Game Programmer, Environment Artist, Production Artist, Tools Programmer, Character Modeler, Character Animator, Game Designer, Game Developer, or Multimedia Designer/Developer.

Program Notes:

Students must earn a grade of "C" or better for all courses required within the program.

+ indicates course has prerequisites and/or corequisites.

Program Prerequisites

CRE101 Critical and Evaluative Reading I (3) OR
 Equivalent as indicated by assessment **Credits: 0-3**

Required Courses

Credits: 37

CIS105 Survey of Computer Information Systems 3
 + CIS107 The Electronic Game Industry 3
 + CIS151 Computer Game Development Level I 3

+ ART170 Three-Dimensional Computer Design (3) OR
 CIS130DA 3D Studio Max: Modeling (3) 3

+ ADA/ART/MMT184 Computer Animation (3) OR
 CIS130DB 3D Studio Max: Animation (3) 3

CIS230DA 3D Studio Max Materials 3
 CIS120DC Adobe Animate: Digital Animation 3

4/20

CIS120DF Computer Graphics: Adobe Photoshop (3) OR
CIS120DG Fireworks: Web Graphics (3) 3

+ CIS220DC Flash: Advanced Animation and ActionScript 3
+ CIS108 Electronic Portfolio Development 1
CIS251 Computer Game Development-Level II 3
+ CIS150AB Object-Oriented Programming Fundamentals 3

+ MMT216 Multimedia Project Management (3) OR
CIS224 Project Management Microsoft Project for Windows (3) 3

Restricted Electives

CIS253 Computer Game Development-Level III 3 **Credits: 3**
CIS230DB 3D Studio Max: Lighting and Rendering 3
+ MTC/TCM120 Introduction to Sound Design for Film and Video 3
CIS120DB Computer Graphics: Adobe Illustrator 3

General Education Requirements

General Education Requirement	Credits: 22-24
--------------------------------------	-----------------------

General Education Core	Credits: 12-14
-------------------------------	-----------------------

First-Year Composition	Credits: 6
-------------------------------	-------------------

Any approved general education course in the First-Year Composition Area

Oral Communication	Credits: 3
---------------------------	-------------------

Any approved general education course in the Oral Communication Area

Critical Reading	Credits: 0
-------------------------	-------------------

Met by CRE101 College Critical Reading and Critical Thinking or equivalent as indicated by assessment in Program Prerequisite area

Mathematics	Credits: 3-5
--------------------	---------------------

MAT120 Intermediate Algebra (5) OR
MAT121 Intermediate Algebra (4) OR
MAT122 Intermediate Algebra (3) OR
Satisfactory completion of a higher level mathematics course

Humanities, Arts and Design**Credits: 3**

Any approved general education course in the Humanities and Fine Arts Area

Social-Behavioral Sciences**Credits: 3**

SBU200 Society and Business

Natural Sciences**Credits: 4**

Any approved general education course from the Natural Sciences Area

Program Competencies

1. Create models using advanced modeling techniques to develop characters, environments, objects, and other content for interactive media. (ART/ADA170, CIS130DA)
2. Produce animated characters and objects using advanced animation techniques, based from pre-production material such as sketches, character sheets, and storyboards. (ADA/ART/MMT184, CIS130DB)
3. Demonstrate CIS/Computer concepts and programming techniques (CIS105)
4. Explain and describe the electronic game industry, including history, markets, distribution, publishing channels, business models, team roles, and career landscape (CIS107)
5. Perform the basic steps for image correction, texture creation, and creating both bitmap and vector-based images, using Adobe Illustrator, Adobe Photoshop or Adobe Fireworks(CIS/BPC102DB; CIS/BPC120DF; CIS/BPC120DG)
6. Apply advanced animation techniques in the creation and editing of Flash animation graphics. (BPC/CIS120DC)
7. Apply advanced scripting and object oriented programming concepts in the creation and manipulation of interactive Flash applications. (CIS220DC)
8. Explain and describe Game Software Development Tools and apply scripting and Object Oriented Development tools to design and develop game programs. (CIS150AB/CIS151/CIS251)
9. Create an electronic portfolio of work (CIS108).
10. Manage game development project resources, budgets, goals and tasks. (MMT216, CIS224)
11. Create and apply textures, materials and surface features to 3D objects and environments. (CIS230DA)
12. Prepare 3D environments for rendering to print, video and real-time graphics engines. (CIS130DB)

MCCCD Governing Board Approval Date: 12-9-08

All information published is subject to change without notice. Every effort has been made to ensure the accuracy of information presented, but based on the dynamic nature of the curricular process, course and program information is subject to change in order to reflect the most current information available.

Appendix E2: Certificate and AAS in Program & System Analysis



Programming and System Analysis

Major: 5048	Primary College: Phoenix College
First Term: 2018	Program Availability: Shared by: CGC EMC GCC MCC PC PVC
Fall	SCC
Final Term: Current	Occupational Area: Information Technology
Award: CCL	Instructional Council: Computer Information Systems (12)
Total Credits: 24	GPA: 2.00
CIP Code: 11.0501	
SOC Code: 15.1211.00	

Description: The Certificate of Completion (CCL) in Programming and System Analysis provides an in-depth exploration of different computer language and technical skills. Includes, but is not limited to the following: operating systems, local area networks, team roles, and dynamics. An Associate in Applied Science (AAS) is also available.

Consumer Program Costs and Career Information: [CG](#), [EM](#), [GC](#), [MC](#), [PC](#), [PV](#), [SC](#)

Suggested Course Plan Sequenced by Semester: [CG](#), [EM](#), [GC](#), [MC](#), [PC](#), [PV](#), [SC](#)

Program Notes:

Students must earn a grade of "C" or better for all courses required within the program.

+ indicates course has prerequisites and/or corequisites.

++ indicates any suffixed courses.

Consultation with an Academic Advisor is recommended for course selection.

Program Prerequisites: None

Required Courses

Credits: 21

[CIS105 Survey of Computer Information Systems 3](#) ✓
[CIS224 Project Management Microsoft Project for Windows 3](#)

[CIS126DA UNIX Operating System \(3\) OR](#)
[CIS126DL Linux Operating System \(3\) OR](#)
+ [MST150++ Any Microsoft Windows course \(3\) 3](#)

+ [CIS150 Programming Fundamentals \(3\) OR](#)
+ [CIS150AB Object-Oriented Programming Fundamentals \(3\) 3](#)

+ [CIS151 Computer Game Development - Level I \(3\) OR](#)
+ [CIS159 Visual Basic Programming I \(3\) OR](#)
+ [CIS162++ Any C Programming: Level I course \(3\) OR](#)
+ [CIS163AA Java Programming: Level I \(3\) 3](#)

- + CIS225 Business Systems Analysis and Design (3) OR
- + CIS225AB Object Oriented Analysis and Design (3) OR
- + CIS250 Management of Information Systems (3) 3

- + CIS119DO Introduction to Oracle: SQL (3) OR
- + CIS276DA MySQL Database (3) OR
- + CIS276DB SQL Server Database (3) 3

Restricted Electives

- + CIS251 Computer Game Development-Level II 3
 - + CIS259 Visual Basic Programming II 3
 - + CIS262++ Any C Programming: Level II course 3
 - + CIS263AA Java Programming: Level II 3
- Credits: 3**

Program Competencies

1. Identify common uses of computers in business and other sectors of society. (CIS105)
2. Name and explain the steps in the system development process. (CIS105)
3. Describe the components of a Management Information System. (CIS105)
4. Write simple programs in a common programming language using appropriate input, output, and processing statements for that language. (CIS105)
5. Identify and define the major components of an operating system, both hardware and software. (CIS126DA, CIS126DL, MST150++)
6. Design algorithms for simple business problems. (CIS150, CIS150AB)
7. Analyze problem descriptions and design programming solutions to the problems, using common problem-solving techniques. (CIS151, CIS159, CIS162++, CIS163AA)
8. Write elementary programs in various programming languages. (CIS151, CIS159, CIS162++, CIS163AA)
9. Analyze problem descriptions and design programming solutions to the problems using common problem-solving techniques. (CIS224)
10. Describe the integrated workings of systems and subsystems within a business organization. (CIS225, CIS225AB, CIS250)
11. Set up, maintain, and use a database management program. (CIS119DO, CIS276DA, CIS276DB)

MCCCD Governing Board Approval Date: June 27, 2017

All information published is subject to change without notice. Every effort has been made to ensure the accuracy of information presented, but based on the dynamic nature of the curricular process, course and program information is subject to change in order to reflect the most current information available.

Programming and System Analysis

Major: 3844	Primary College: Phoenix College
First Term: 2018 Fall	Program Availability: Shared by: EMC GCC MCC PC PVC SCC
Final Term: Current	Occupational Area: Information Technology
Award: AAS	Instructional Council: Computer Information Systems (12)
Total Credits: 64-70	GPA: 2.00
CIP Code: 11.0501	
SOC Code: 15-1211.00	

Description: The Associate in Applied Science (AAS) in Programming and System Analysis program provides an in-depth exploration of different computer language and technical skills. The program includes, but is not limited to the following: operating systems, local area networks, business communication, team roles, and dynamics. A Certificate of Completion (CCL) is also available.

Suggested Course Plan Sequenced by Semester: EM, GC, MC, PC, PV, SC

Program Notes:

Students must earn a grade of "C" or better for all courses required within the program.

+ indicates course has prerequisites and/or corequisites.

++ indicates any suffixed courses.

Consultation with an Academic Advisor is recommended for course selection.

Program Prerequisites: None

Required Courses

Credits: 36-37

- ACC111 Accounting Principles I 3
- CIS105 Survey of Computer Information Systems 3
- CIS224 Project Management Microsoft Project for Windows 3

- CIS126DA UNIX Operating System (3) OR
- CIS126DL Linux Operating System (3) OR
- + MST150++ Any Microsoft Windows course (3) 3

- + CIS150 Programming Fundamentals (3) OR
- + CIS150AB Object-Oriented Programming Fundamentals (3) 3

- + CIS166++ Any Web Scripting course(s) 3

- + CIS190 Introduction to Local Area Networks (3) OR
- CNT140AA Introduction to Networks (4) OR
- + MST140 Microsoft Networking Essentials (3) 3-4

- + CIS225 Business Systems Analysis and Design (3) OR

- + CIS225AB Object-Oriented Analysis and Design (3) OR
- + CIS250 Management of Information Systems (3) 3

- + CIS119DO Introduction to Oracle: SQL (3) OR
- + CIS276DA MySQL Database (3) OR
- + CIS276DB SQL Server Database (3) 3

Select 2 courses for a total of 6 credits:

- + CIS151 Computer Game Development-Level I (3) OR
- + CIS159 Visual Basic Programming I (3) OR
- + CIS162++ Any C Programming: Level I course (3) OR
- + CIS163AA Java Programming: Level I (3) 6

- + GBS233 Business Communication 3

Restricted Electives

- + CIS251 Computer Game Development-Level II 3 **Credits: 6**
- + CIS259 Visual Basic Programming II 3
- + CIS262++ Any C Programming: Level II course 3
- + CIS263AA Java Programming: Level II 3

General Education Requirements

General Education Requirement	Credits: 22-27
--------------------------------------	-----------------------

General Education Core	Credits: 12-17
-------------------------------	-----------------------

First-Year Composition	Credits: 6
-------------------------------	-------------------

- + ENG101 First-Year Composition (3) OR
- + ENG107 First-Year Composition for ESL (3) AND
- + ENG102 First-Year Composition (3) OR
- + ENG108 First-Year Composition for ESL (3)

Oral Communication	Credits: 3
---------------------------	-------------------

Any approved general education course in the Oral Communication area.

Critical Reading	Credits: 0-3
-------------------------	---------------------

- + CRE101 College Critical Reading and Critical Thinking (3) OR
- Equivalent by assessment

Mathematics	Credits: 3-5
--------------------	---------------------

- + MAT150 College Algebra/Functions (5) OR
- + M&T151 College Algebra/Functions (4) OR

General Education Distribution Credits: 10

Humanities, Arts and Design Credits: 3

Any approved general education course in the Humanities, Arts and Design area.

Social-Behavioral Sciences Credits: 3

ECN211 Macroeconomic Principles (3) OR
 ECN212 Microeconomic Principles (3) OR
 SBU200 Society and Business (3)

Natural Sciences Credits: 4

Any approved general education course in the Natural Sciences area.

Program Competencies

1. Identify, describe, and use the fundamental principles and practices of accounting. (ACC111)
2. Identify common uses of computers in business and other sectors of society. (CIS105)
3. Name and explain the steps in the system development process. (CIS105)
4. Describe the components of a Management Information System. (CIS105)
5. Write simple programs in a common programming language using appropriate input, output, and processing statements for that language. (CIS105)
6. Identify and define the major components of an operating system, both hardware and software. (CIS126DA, CIS126DL, MST150++)
7. Design algorithms for simple business problems. (CIS150, CIS150AB)
8. Analyze problem descriptions and design programming solutions to the problems, using common problem-solving techniques. (CIS151, CIS159, CIS162++, CIS163AA)
9. Write elementary programs in various programming languages. (CIS151, CIS159, CIS162++, CIS163AA)
10. Using a popular client-side scripting language, write a script that solves a business problem, using syntax and structures common to that scripting language. (CIS166++)
11. Describe the benefits, uses, and problems associated with local area networks. (CIS190, CNT140AA, MST140)
12. Analyze problem descriptions and design programming solution to the problems using common problem-solving techniques. (CIS224)
13. Describe the integrated workings of systems and subsystems within a business organization. (CIS225, CIS225AB, CIS250)
14. Set up, maintain, and use a database management program. (CIS119DO, CIS276DA, CIS276DB)
15. Identify ways of processing messages and evaluating their success. (GBS233)
16. Write coherent sentences and paragraphs using fundamental writing techniques. (GBS233)
17. Describe the process of sending and receiving professional quality electronic mail. (GBS233)

18. Describe the common uses of visual aids to convert quantitative and qualitative data into meaningful summaries. (GBS233)

MCCCD Governing Board Approval Date: June 27, 2017

All information published is subject to change without notice. Every effort has been made to ensure the accuracy of information presented, but based on the dynamic nature of the curricular process, course and program information is subject to change in order to reflect the most current information available.

Appendix F: Peoria Unified School District's Total CTE Program Model

CTE WORKS
COURSE INFORMATION GUIDE

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.

CAREER
EXPLORATION

+

TECHNOLOGY

+

WORK
EXPERIENCE

=

CTE
CAREER AND
TECHNICAL
EDUCATION

CTE PROVIDES HIGH SCHOOL STUDENTS WITH:

<ul style="list-style-type: none"> Career exploration & direction Hands-on training Academic relevance Real world application Technical skills 	<ul style="list-style-type: none"> 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, associate and bachelor 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

2
3

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.



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, associate and bachelor 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

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

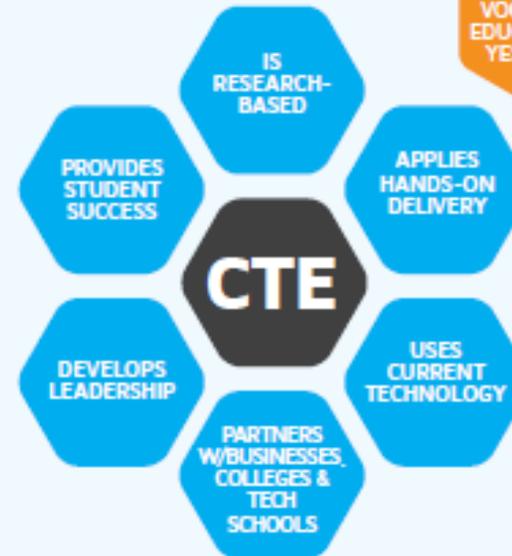
FACT: CTE provides students the opportunity to experience different careers & change their goals.

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: 77% PUSD: 93% PUSD CTE: 99%

89% **PLACEMENT RATE:**
High school graduates who placed in CTE Program-related education, work, or military career one year after graduation.

80% **PASSING RATE:**
on the Arizona State Technical Assessments

51 **CTE COURSES OFFER COLLEGE CREDIT**
Earned during high school

38 **CTE COURSES OFFER INDUSTRY CERTIFICATIONS**
Earned during high school

+ **375+ CTE MASTERY OF SUBJECT AREA:**
graduation endorsements awarded - the equivalent of a college major earned during high school

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



STATE & NATIONAL AWARDS:

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

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

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

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

3 **STATE OFFICERS & LEADERSHIP**

- 2018** National Excellence in Action Award for Fire Science
- 2017** WestMarc Best of the West Award for Peoria CTE programs
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. CTE currently offers 110 programs 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
- › Air Conditioning Technician
- › Automotive Collision
- › Automotive Technology
- › Aviation Maintenance
- › Avionics/Electronics
- › Coding
- › Cosmetology
- › Dental Assisting
- › Electrical Trade Specialty
- › Emergency Medical Technician
- › Energy & Industrial Technology
- › Fire Science
- › General Construction
- › IT Security
- › Law, Public Safety & Security
- › Massage Therapy
- › Medical Assisting
- › Medium/Heavy Diesel Technology
- › Pharmacy Technician
- › Physical Therapy Technician
- › Plumbing Trade Specialty
- › Precision Machining
- › Veterinary Sciences
- › Welding Technology

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

BUSINESS, MARKETING & MANAGEMENT

ACCOUNTING

Business Foundations
Accounting I
Accounting II

WORK-BASED LEARNING:
CTE Internship: Accounting

CAMPUS LOCATIONS:
Centennial HS
Ironwood HS
Liberty HS

COLLEGE CREDIT HOURS:
7 hours

CERTIFICATION:
Preparation for Quick Books certification

BUSINESS

Business Foundations
Advanced Business Computer Applications

WORK-BASED LEARNING:
Business Administration/Work Experience

CAMPUS LOCATIONS:
Centennial HS

COLLEGE CREDIT HOURS:
18 hours

CERTIFICATION:
Preparation for MDCS certification

FINANCE

Personal Finance I
Economics & World of Work
Personal Finance II
Investing & Insurance

WORK-BASED LEARNING:
CTE Internship: Finance

CAMPUS LOCATIONS:
Ironwood HS
eCampus

COLLEGE CREDIT HOURS:
3 hours

CERTIFICATION:
Foundations in Personal Finance Certification

HOSPITALITY

Hospitality
Sports Management/
Hospitality
Advanced Hospitality

WORK-BASED LEARNING:
CTE Internship:
NA Hospitality

CAMPUS LOCATIONS:
Raymond S. Kelle HS
(National Academy of Hospitality & Tourism only available at Raymond S. Kelle HS only)

COLLEGE CREDIT HOURS:
18 hours

CERTIFICATION:
Hospitality Industry Certification
NAFTrack Certification

CTSOs



MARKETING

Marketing
Sports Entertainment
Marketing & Sales

WORK-BASED LEARNING:
Advanced Marketing/Work Experience

CAMPUS LOCATIONS:
All high schools
(through Raymond S. Kelle HS)

COLLEGE CREDIT HOURS:
8 hours

CERTIFICATION:
Preparation for MDCS Certification





COMMUNICATION & INFORMATION SYSTEMS



FILM & TV

Media Technology
Media Production

WORK-BASED LEARNING:
CTE Internship: Media/PSGN
(Parrish Station/Working in a Room)

CAMPUS LOCATIONS:
All High Schools

COLLEGE CREDIT HOURS:
0 hours

CERTIFICATION:
In progress

SOFTWARE DEVELOPMENT

Computer Programming & Technology
Computer Science Principles
Game Design & Development

WORK-BASED LEARNING:
CTE Internship: IT

CAMPUS LOCATIONS:
All High Schools

COLLEGE CREDIT HOURS:
0 - 15 hours

CERTIFICATION:
Gaming Development MTA

ADVANCED SOFTWARE

Computer Science Principles
AP Computer Science I
AP Computer Science Principles

WORK-BASED LEARNING:
CTE Internship: IT

CAMPUS LOCATIONS:
Central HS
Ironwood HS
Liberty HS
Parrish HS

COLLEGE CREDIT HOURS:
0 - 15 hours

CERTIFICATION:
Software Development Fundamentals MTA

CTSO



ENVIRONMENTAL & AGRICULTURAL SYSTEMS

AGRICULTURE

ANIMAL SCIENCE

BIOTECHNOLOGY

SPORTS TURF

AGRICULTURAL SCIENCE I	ANIMAL SCIENCE I	AGRICULTURAL SCIENCE I	NURSERY MANAGEMENT
AGRICULTURAL SCIENCE II	ANIMAL SCIENCE II	AGRICULTURAL SCIENCE II	AGRICULTURAL SCIENCE I
AGRICULTURAL SCIENCE III	ANIMAL SCIENCE III	BIOTECHNOLOGY	AGRICULTURAL SCIENCE II
AGRICULTURAL SCIENCE IV	ANIMAL SCIENCE IV		AGRICULTURAL SCIENCE III
AGRICULTURAL MECHANICS			AGRICULTURAL SCIENCE IV

WORK-BASED LEARNING: Supervised Agriculture Experience (SAE)			
--	--	--	--

CAMPUS LOCATIONS: Peoria HC	CAMPUS LOCATIONS: Peoria HC	CAMPUS LOCATIONS: Peoria HC	CAMPUS LOCATIONS: Peoria HC
---------------------------------------	---------------------------------------	---------------------------------------	---------------------------------------

COLLEGE CREDIT HOURS: 4 hours	COLLEGE CREDIT HOURS: In progress	COLLEGE CREDIT HOURS: 4 hours	COLLEGE CREDIT HOURS: 4 hours
---	---	---	---

CERTIFICATION: Arizona Certified Landscape Professional Certificate	CERTIFICATION: Beef Quality Assurance	CERTIFICATION: In progress	CERTIFICATION: Arizona Certified Landscape Professional Certificate
---	---	--------------------------------------	---

CTSD





HEALTH SERVICES



MEDICAL ASSISTING NURSING SPORTS MEDICINE CTSO

Medical Science
Fundamentals of Allied Health/
Allied Health Lab

Medical Science
Introduction to Health Care
Careers
Patient Care Careers/Nursing
Assistant Lab

**Introduction to Sports
Medicine**
Advanced Sports Medicine



WORK-BASED LEARNING:
CTE Internship: Medical
Assisting Services

WORK-BASED LEARNING:
CTE Internship:
Nursing Services

WORK-BASED LEARNING:
CTE Internship:
Sports Medicine

CAMPUS LOCATIONS:
Centennial HS
Liberty HG
Raymond S. Kello HS

CAMPUS LOCATIONS:
Summit Mountain HS

CAMPUS LOCATIONS:
All HG

COLLEGE CREDIT HOURS:
8.5 hours

COLLEGE CREDIT HOURS:
6.5 hours

COLLEGE CREDIT HOURS:
6 hours

CERTIFICATION:
Certified Clinical Medical
Assistant (CCMA)
Basic Life Support (BLS) for
Health Care Providers
AHA First Aid Certification

CERTIFICATION:
CNA Certified Nursing
Assistant (CNA)
CPR Certification

CERTIFICATION:
CPR/First Aid

HUMAN SERVICES & RESOURCES



AIR FORCE JROTC

- AF-JROTC I
- AF-JROTC II
- AF-JROTC III
- AF-JROTC IV

CUINARY

- Introduction to Culinary Arts
- Creative Foods
- Professional Cooking
- Commercial Baking

FASHION

- Fashion I
- Fashion II

EARLY CHILDHOOD ED

- Child Development
- Child Oriented Occupational Program (COOP)

WORK-BASED LEARNING: AF-JROTC Leadership

WORK-BASED LEARNING: CTE Internship: Culinary Arts

WORK-BASED LEARNING: CTE Internship: Design & Merchandising

WORK-BASED LEARNING: Advanced COOP/Work Experience

CAMPUS LOCATIONS: Cactus HS, Peoria HS

CAMPUS LOCATIONS: All high schools except Summit Mountain High School

CAMPUS LOCATIONS: Summit Mountain HS

CAMPUS LOCATIONS: All High Schools

COLLEGE CREDIT HOURS: In progress

COLLEGE CREDIT HOURS: 6 hours

COLLEGE CREDIT HOURS: In progress

COLLEGE CREDIT HOURS: 10 hours

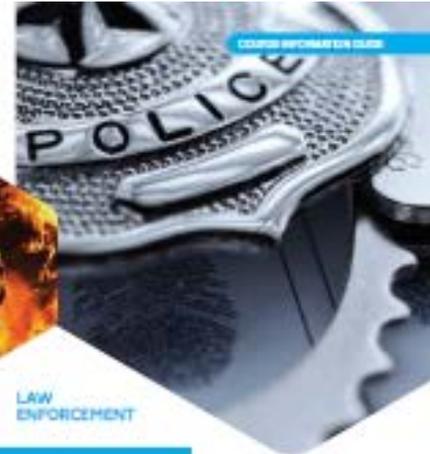
CERTIFICATION: AF-JROTC Certificate of Completion

AF-JROTC Training Certificate of Training

CERTIFICATION: Maricopa County Food Service Worker Certification, ServSafe Certification

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

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



EDUCATION

- Future Teachers Academy I
- Future Teachers Academy II

FIRE SCIENCE

- Medical Science
- Introduction to Fire Suppression
- Introduction to Fire Service Selection

LAW ENFORCEMENT

- Criminal Justice
- Law Enforcement I
- Law Enforcement II

WORK-BASED LEARNING: CTE Internship: Ed Professionals

WORK-BASED LEARNING: CTE Internship: Fire Science

WORK-BASED LEARNING: CTE Internship: Law Enforcement

CAMPUS LOCATIONS: Cactus HS, Centennial HS, Summit Mountain HS

CAMPUS LOCATIONS: Summit Mountain HS

CAMPUS LOCATIONS: All except Peoria HS

COLLEGE CREDIT HOURS: 6 hours

COLLEGE CREDIT HOURS: 6 hours

COLLEGE CREDIT HOURS: 8 hours

CERTIFICATION: Praxis II/Professional Certificate

CERTIFICATION: ACP/IFPA Certification, ACP/IFPA Basic First Aid Certification, ACP/IFPA Bloodborne Pathogen Awareness, CPRT Certification (Candidate Physical Ability Test), NIMS 100, 200 and 300, Wildland Firefighter

CERTIFICATION: CPR/First Aid, Guard Card

CTSOs



INDUSTRIAL, MANUFACTURING & ENGINEERING SYSTEMS

AUTOMOTIVES

Auto Tech I
Auto Tech II
Auto Tech III
Auto Tech IV

CONSTRUCTION

Building Trades I
Building Trades II
Building Trades III

ENGINEERING

Engineering I
Engineering II
Engineering III
Engineering IV

WELDING

Welding I
Welding II

WORK-BASED LEARNING:

CTE Internship: Auto Tech

WORK-BASED LEARNING:

CTE Internship:
Construction Trades

WORK-BASED LEARNING:

CTE Internship:
Engineering Sciences

WORK-BASED LEARNING:

CTE Internship:
Welding

CAMPUS LOCATIONS:

Cactus HS
Centennial HS
Ironwood HS
Peoria HS (NATIF Certified)
Sunrise Mountain HS

CAMPUS LOCATIONS:

Cactus HS
Centennial HS
Ironwood HS
Peoria HS

CAMPUS LOCATIONS:

Centennial HS
Ironwood HS
Liberty HS
Raymond S. Kalls HS
Sunrise Mountain HS

CAMPUS LOCATIONS:

Peoria HS

COLLEGE CREDIT HOURS:

0-6 hours

COLLEGE CREDIT HOURS:

0 hours

COLLEGE CREDIT HOURS:

0-12 hours

COLLEGE CREDIT HOURS:

0 hours

CERTIFICATION:

ASE (Automotive Service Excellence) Certification in Maintenance & Light Repair

CERTIFICATION:

NCCCO Certification

CERTIFICATION:

American Drafting & Design Association Certification
CSWA (Certified SolidWorks Associate) Certification

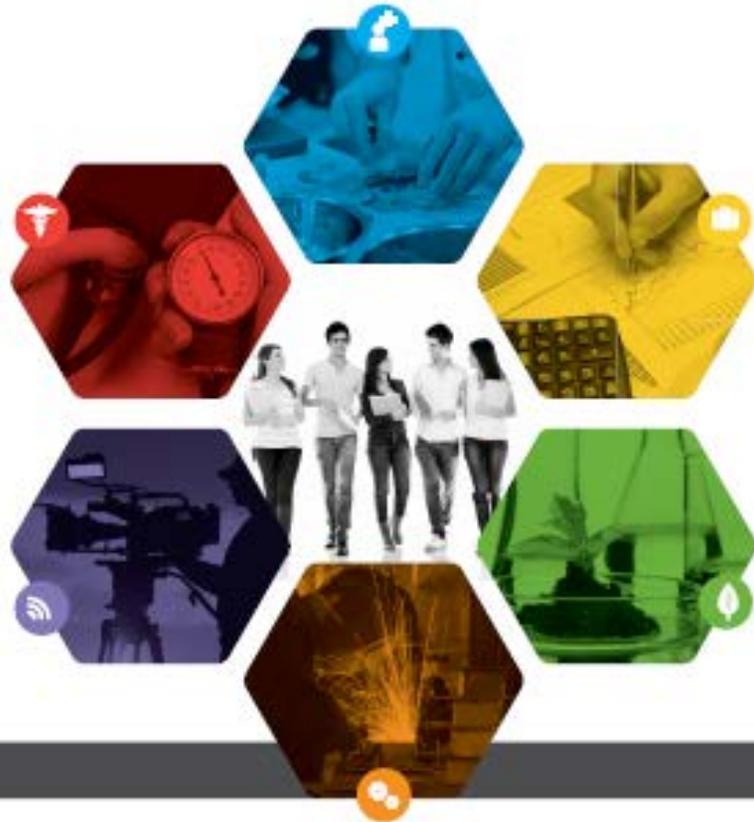
CERTIFICATION:

NCCCO Certification



CTSO





CTE WORKS EXPLORE YOUR FUTURE NOW!

TALK TO YOUR COUNSELOR, OR VISIT FEDRIALINFED.ORG/CTEWORKS

FIND A PROGRAM THAT WORKS FOR YOU!

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

 <p>BUSINESS, MARKETING & MANAGEMENT</p> <p>ACCOUNTING BUSINESS FINANCE HOSPITALITY MARKETING</p>	 <p>COMMUNICATION & INFORMATION SYSTEMS</p> <p>FILM & TV SOFTWARE DEVELOPMENT ADVANCED SOFTWARE</p>	 <p>ENVIRONMENTAL & AGRICULTURAL SYSTEMS</p> <p>AGRICULTURE ANIMAL SCIENCE BIOTECHNOLOGY SPORTS TURF</p>
 <p>INDUSTRIAL, MANUFACTURING & ENGINEERING SYSTEMS</p> <p>AUTOMOTIVES CONSTRUCTION ENGINEERING WELDING</p>	 <p>HEALTH SERVICES</p> <p>MEDICAL ASSISTING NURSING SPORTS MEDICINE</p> <p>HIGH SCHOOLS</p> <p>CACTUS CENTENNIAL IRONWOOD LIBERTY</p> <p>PEORIA RAYMOND S. KELLIS SUNRISE MOUNTAIN</p>	 <p>HUMAN SERVICES & RESOURCES</p> <p>AIR FORCE JROTC CULINARY FASHION EARLY CHILDHOOD ED EDUCATION FIRE SCIENCE LAW ENFORCEMENT</p>

All Peoria Unified School District students may enroll in a CTE program on any campus.



The Peoria Unified School District does not discriminate in any program or activity on the basis of race, sex, color, religion, or national origin. Any person who believes they have been discriminated against in any program or activity should contact the District Office at 623-486-6259.

Funded by
West-MEC

(623) 486-6259
peoriaunified.org/cteworks



Appendix H: Peoria CTE Communication & Information Systems

This diagram is pages 12 and 13 of the CTE Guide for students to inform them of high school program available. Please notice that the Software Development and Advanced Software Development Programs are part of the Communication & Information Systems 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
COURSE INFORMATION SLIDE



COMMUNICATION & INFORMATION SYSTEMS

FILM & TV	SOFTWARE DEVELOPMENT	ADVANCED SOFTWARE	CTSO
Media Technology Media Production	Computer Programming & Technology Computer Science Principles: Game Design & Development	Computer Science Principles AP Computer Science I AP Computer Science Principles	
WORK-BASED LEARNING: CTE Internship: Media/PSGN <small>(Peoria Public Broadcasting Network)</small>	WORK-BASED LEARNING: CTE Internship: IT	WORK-BASED LEARNING: CTE Internship: IT	
CAMPUS LOCATIONS: All High Schools	CAMPUS LOCATIONS: All High Schools	CAMPUS LOCATIONS: Central HS Inwood HS Liberty HS Peoria HS	
COLLEGE CREDIT HOURS: 8 hours	COLLEGE CREDIT HOURS: 9 - 15 hours	COLLEGE CREDIT HOURS: 9 - 15 hours	
CERTIFICATION: In progress	CERTIFICATION: Gaming Development MTA	CERTIFICATION: Software Development Fundamentals MTA	

12
13



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.

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

(623) 486-6259
peoriaunified.org/cteworks



Appendix J: Peoria's Software Development Programs Cut Sheet



COURSE SEQUENCE:

SOFTWARE DEVELOPMENT

- Computer Programming & Technology **C**
- Computer Science Principles **C** ★
- Game Design & Development **A** **C**
- CTE Internship: IT

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.

- A** State Technical Assessment
- C** College Credit
- ★ Honors

CAMPUS LOCATION:

- Cactus HS
- Centennial HS
- Ironwood HS
- Liberty HS
- Peoria HS
- Raymond S. Kellis HS
- Sunrise Mountain HS

STUDENT ORGANIZATION:



COLLEGE CREDIT HOURS:



These Dual Enrollment and/or AP hours may apply toward:

Certificate of Completion in Game Technology

Certificate of Completion in Program & System Analysis

Associate of Applied Science in Programming & System Analysis

Bachelor of Science in Computer Science

COLLEGE PROGRAM PARTNER:

Glendale Community College

CERTIFICATION:

Gaming Development MTA (Microsoft Technology Associate)

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

ADVANCED SOFTWARE

COURSE SEQUENCE:

ADVANCED SOFTWARE DEVELOPMENT

- Computer Science Principles  
- AP Computer Science I  
- AP Computer Science Principles  
- CTE Internship: IT

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.

-  College Credit
-  Honors

COLLEGE CREDIT HOURS:

9 HOURS - **15** HOURS

These Dual Enrollment and/or AP hours may apply toward:

Certificate of Completion in Computer Information Systems

Associate of Applied Science in Computer Information Systems

Bachelor of Science in Computer Science

CAMPUS LOCATION:

Centennial HS
Ironwood HS
Liberty HS
Peoria HS

COLLEGE PROGRAM PARTNER:

Glendale Community College

STUDENT ORGANIZATION:



CERTIFICATION:

Software Development Fundamentals MTA (Microsoft Technology Associate)

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

CACTUS HS | CENTENNIAL HS | IRONWOOD HS | LIBERTY HS
PEORIA HS | RAYMOND S. KELLIS HS | SUNRISE MOUNTAIN HS



EXPLORE YOUR FUTURE NOW!



CAREER & COLLEGE DAY



November 3, 2018
9:00 AM - 12:00 PM
Centennial High School

Open Campus
14388 N. 79th Avenue
Peoria 85381

THE CAREER & TECHNICAL EDUCATION DEPARTMENT IS HOSTING A FREE FAMILY EVENT WHERE YOU CAN EXPLORE CAREER AND COLLEGE OPTIONS NOW TO HELP YOU DEVELOP AND MAP YOUR HIGH SCHOOL, COLLEGE AND CAREER PLANS.

YOU WILL HAVE THE OPPORTUNITY TO:

- Tour our 28 Career & Technical Education (CTE) programs
- Meet our teachers, students, business & college partners aligned with each program
- Learn about college credit and Program of Study opportunities
- Explore 7 student organizations for leadership, competition & community service experience
- Gather information from college, university, military & tech school representatives
- Visit the Career Center for testing, scholarship & financial aid information

FIND OUT HOW CTE CAN WORK FOR YOU!

99%

GRADUATION RATE:
STATE: 77%
PUSD: 93%
PUSD CTE: 99%

51

CTE COURSES OFFER COLLEGE CREDIT

Earned during high school

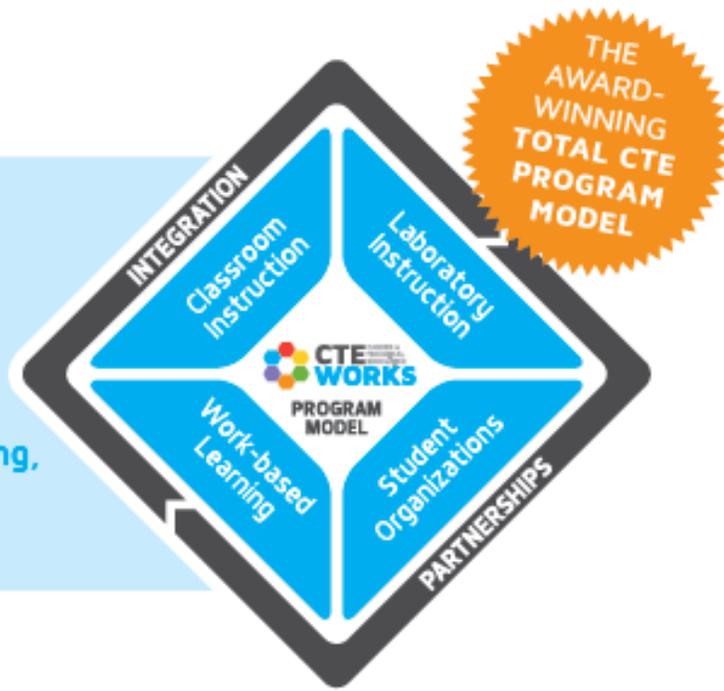
38

CTE COURSES OFFER INDUSTRY CERTIFICATIONS

Earned during high school

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

AUTOMOTIVES
CONSTRUCTION
ENGINEERING
WELDING

COMMUNICATION & INFORMATION SYSTEMS

FILM & TV
SOFTWARE DEVELOPMENT
ADVANCED SOFTWARE

HEALTH SERVICES

MEDICAL ASSISTING
NURSING
SPORTS MEDICINE

ENVIRONMENTAL & AGRICULTURAL SYSTEMS

AGRICULTURE
ANIMAL SCIENCE
BIOTECHNOLOGY
SPORTS TURF

HUMAN SERVICES & RESOURCES

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



The Peoria Unified School District does not discriminate in any programs or activities on the basis of race, creed, religion, color, national origin, age, sex, or military status, and does not permit a gender-based harassment or identity, disability, or the use of a sexual display or sexual harassment and/or sexual violence in the Peoria Unified School District or any of its programs or activities.

Funded by
West-MEC

(623) 486-6259
peoriaunified.org/cteworks



CTE WORKS
CAREER & TECHNICAL EDUCATION

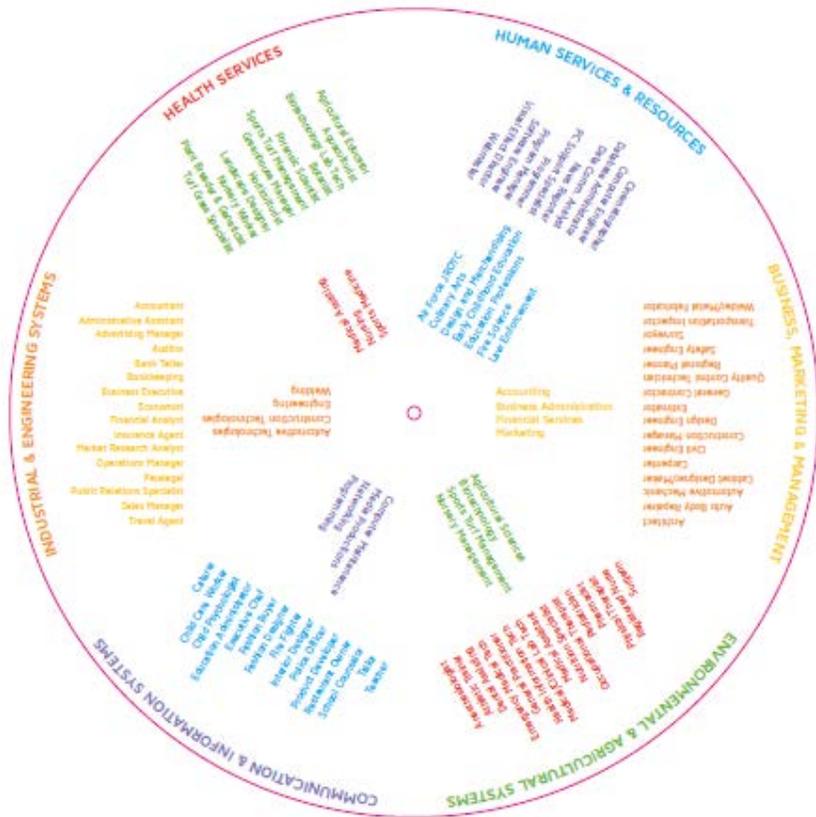
PEORIA UNIFIED SCHOOL DISTRICT

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.



This is the inside 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



EXPLORE YOUR
FUTURE NOW IN...
CONSTRUCTION

WWW.PEORIAUNIFIED.ORG/CTEWORKS



EXPLORE YOUR
FUTURE NOW IN...
ENGINEERING

WWW.PEORIAUNIFIED.ORG/CTEWORKS



EXPLORE YOUR
FUTURE NOW IN...
WELDING

WWW.PEORIAUNIFIED.ORG/CTEWORKS





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

WWW.PEORIAUNIFIED.ORG/CTEWORKS



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

WWW.PEORIAUNIFIED.ORG/CTEWORKS



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

WWW.PEORIAUNIFIED.ORG/CTEWORKS



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

WWW.PEORIAUNIFIED.ORG/CTEWORKS





EXPLORE YOUR
FUTURE NOW IN...
FINANCE



WWW.PEORIAUNIFIED.ORG/CTEWORKS



EXPLORE YOUR
FUTURE NOW IN...
HOSPITALITY



WWW.PEORIAUNIFIED.ORG/CTEWORKS



EXPLORE YOUR
FUTURE NOW IN...
MARKETING



WWW.PEORIAUNIFIED.ORG/CTEWORKS



EXPLORE YOUR
FUTURE NOW IN...
AGRICULTURE



WWW.PEORIAUNIFIED.ORG/CTEWORKS





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

WWW.PEORIAUNIFIED.ORG/CTEWORKS



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

WWW.PEORIAUNIFIED.ORG/CTEWORKS



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

WWW.PEORIAUNIFIED.ORG/CTEWORKS



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

WWW.PEORIAUNIFIED.ORG/CTEWORKS





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

WWW.PEORIAUNIFIED.ORG/CTEWORKS



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

WWW.PEORIAUNIFIED.ORG/CTEWORKS



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

WWW.PEORIAUNIFIED.ORG/CTEWORKS



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

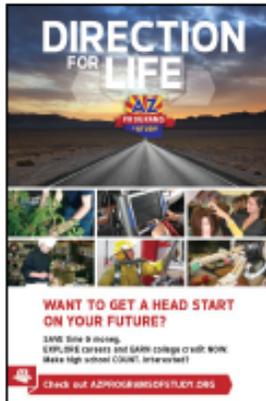
WWW.PEORIAUNIFIED.ORG/CTEWORKS



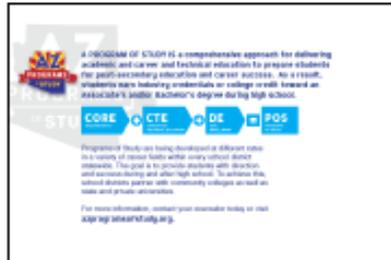
Appendix O: Arizona Programs of Study Marketing Materials

AZPOS PRINT MATERIALS

GENERAL POSTCARD:



FRONT



BACK

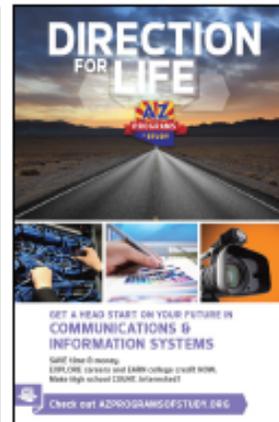
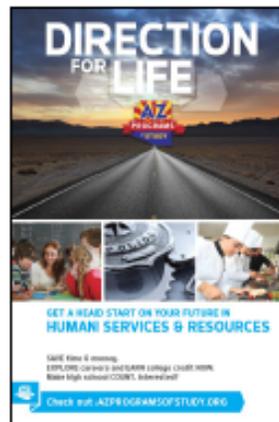
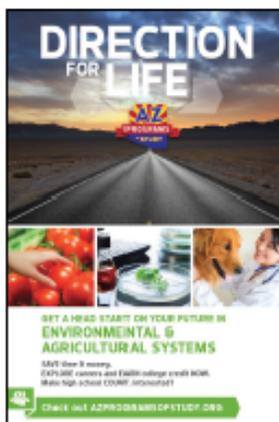
CAREER FIELD POSTCARDS: COLOR COORDINATED PER 6 CAREER FIELD COLORS



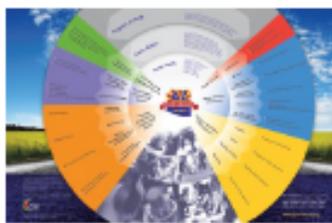
FRONT



BACK



WHEEL POSTER: Standard 24"x36" poster



WHEEL FOLDOUT not a folder: Can be included in Notebook



EXTERIOR



INTERIOR

GUIDE BOOKLET:

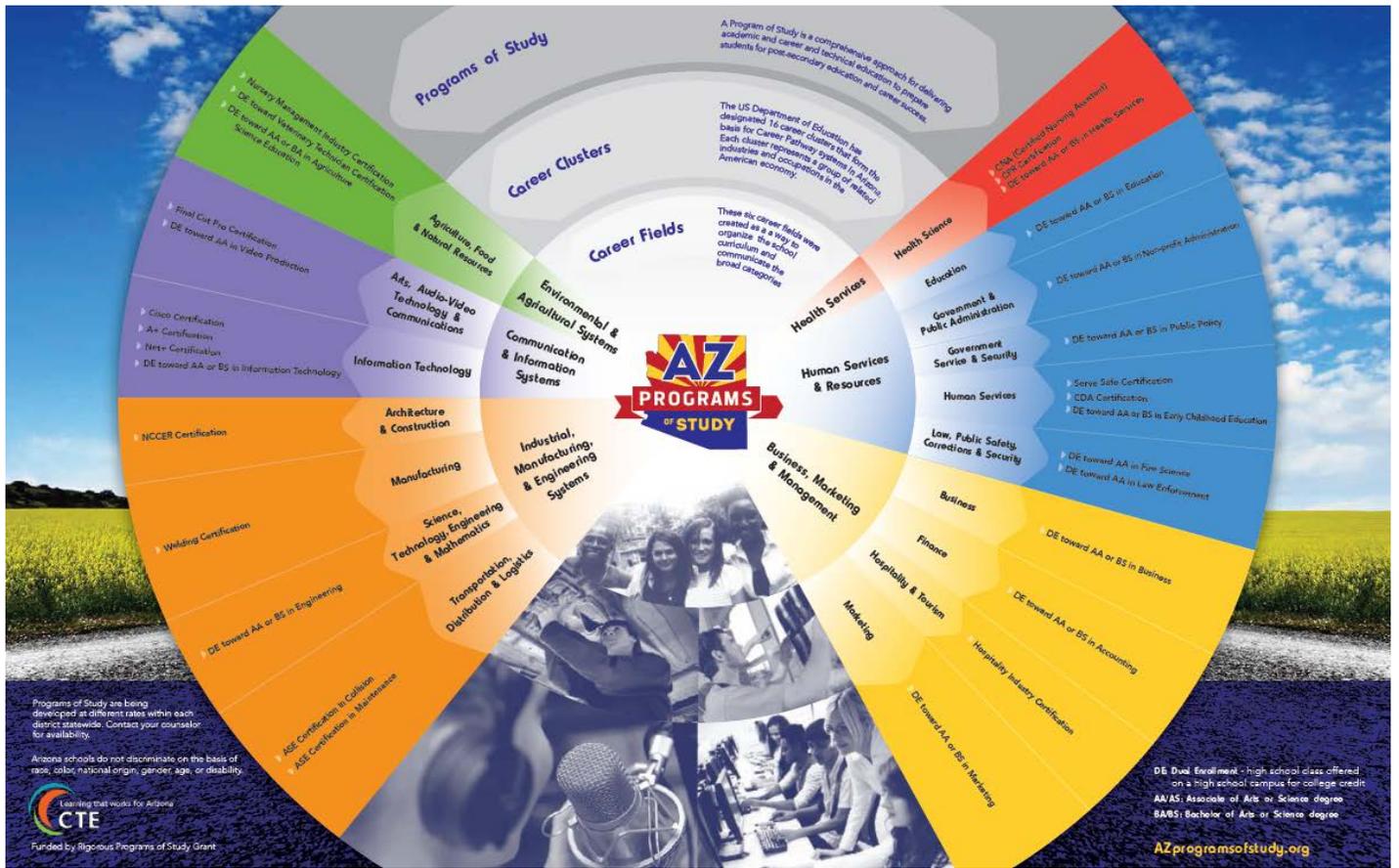


NOTEBOOK CONTENT: Cover, Spine, Table of Contents, Career Field Dividers



STUDENT FOLDER:

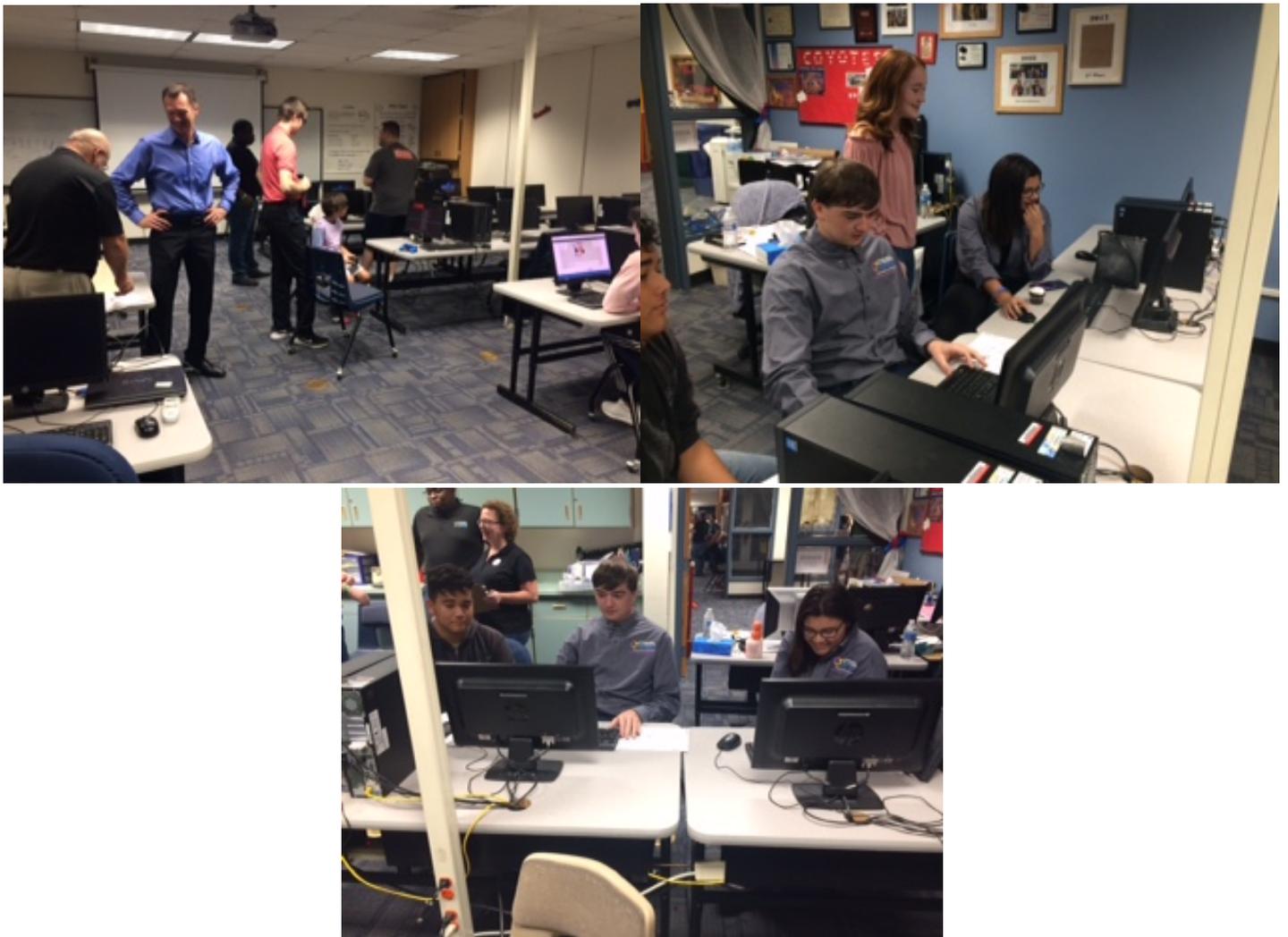




Appendix P: Pictures of Software Development Program



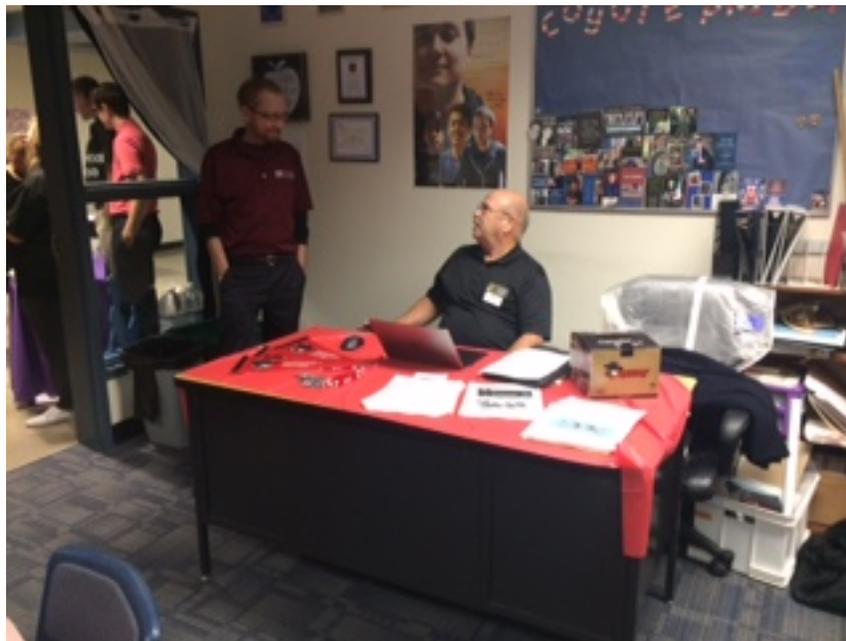
Advisory Board meeting in Tucson



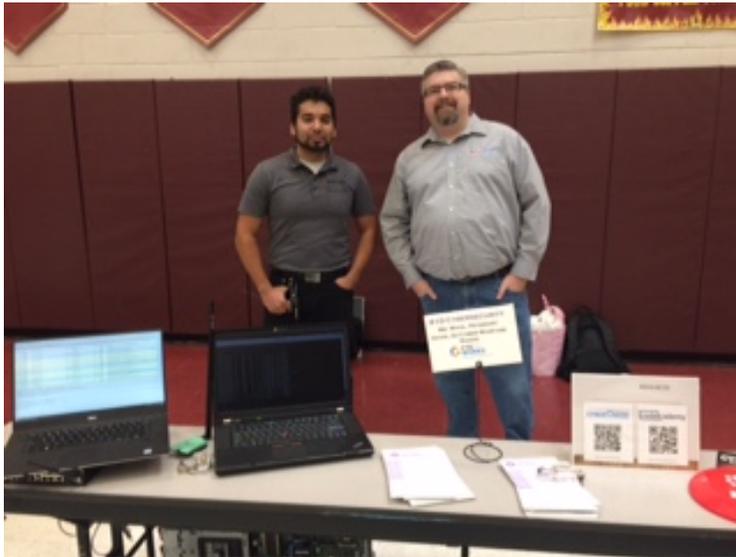
2018 Career & College Day



Evelyn Cambro, Former IBM Software Development Project Manager, teaching game design students design life cycle



Gary, GCC Post -Secondary Advisory Member, sharing college opportunities with parent



Advisory Council Members at Feeder Elementary School discussing Information Technology Opportunities



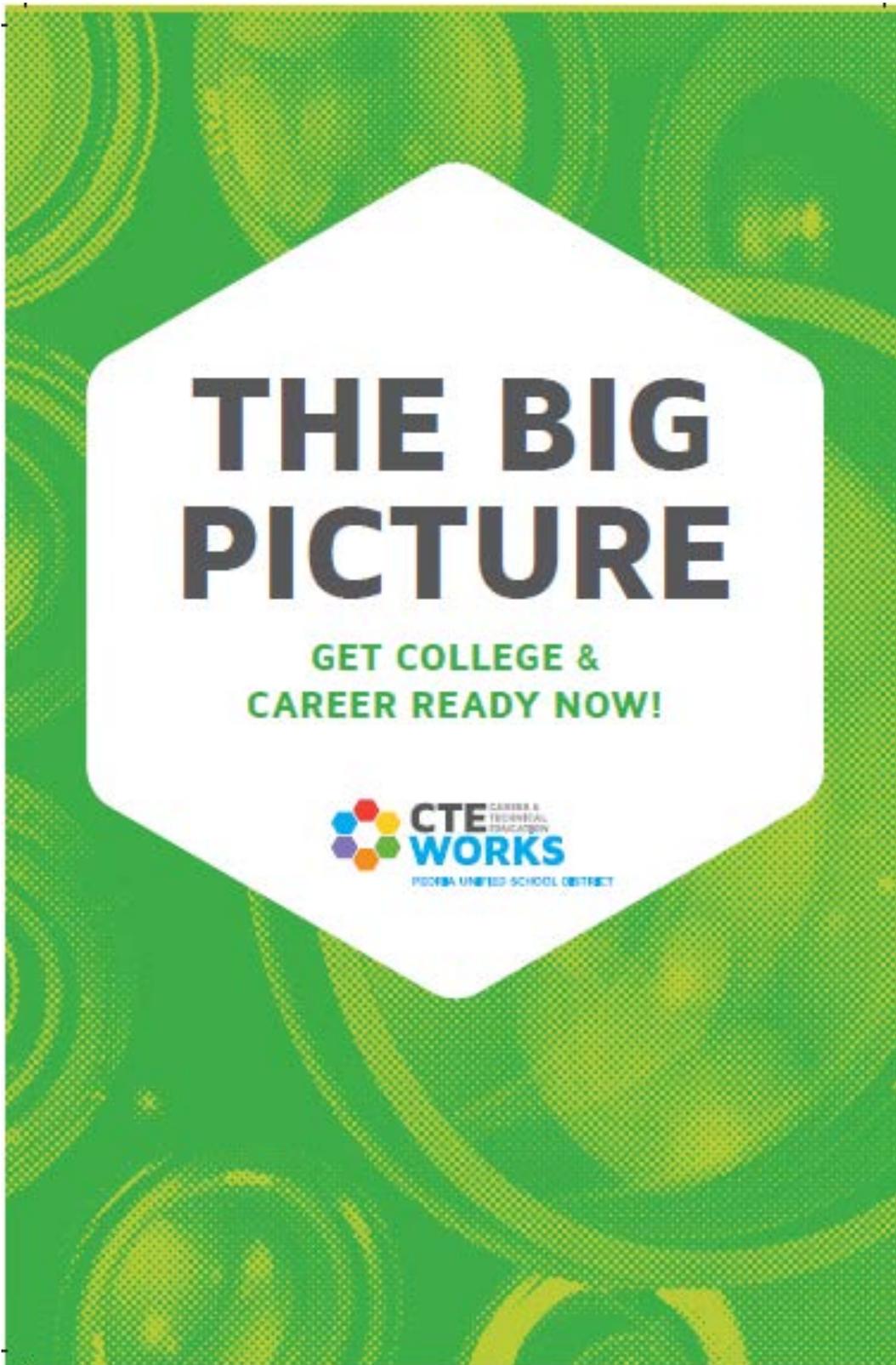
Scott, Advisory Member, instructing exercise on coding with Raspberry Pi



FBLA Activities



GCU Gaming and eSports Presentations



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 and associate & bachelor 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

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.

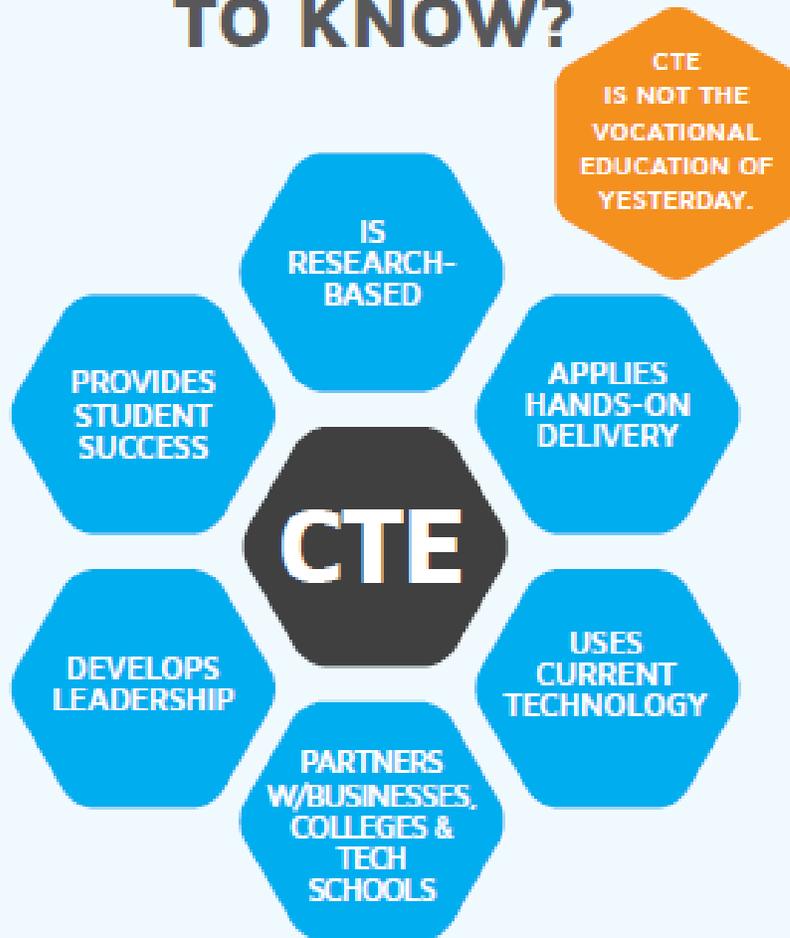


CTE GIVES DIRECTION NOW

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

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

WHAT DO YOU NEED TO KNOW?



AND THIS IS WHY CTE WORKS FOR:

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

WHAT DOES CTE OFFER?

NATIONALLY RANKED PROGRAMS

Our CTE programs have been nationally recognized for exploration, innovation and student achievement.



GRADUATION ENDORSEMENTS



Students may pursue a CTE Mastery of Subject Area Graduation Endorsement by completing a course sequence in a specific program. This may be achieved in multiple programs.

COLLEGE & CAREER PREPARATION

PUSD partners with community college and university programs to offer high school students the opportunity to earn industry credentials and college credit toward certifications and degrees in a specific career field during high school. CTE Currently offers 110+ programs of study.



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:

- ▶ Aesthetics
- ▶ Air Conditioning Technician
- ▶ Automotive Collision
- ▶ Automotive Technology
- ▶ Aviation Maintenance
- ▶ Avionics/Electronics
- ▶ Coding
- ▶ Cosmetology
- ▶ Dental Assisting
- ▶ Electrical Trade Specialty
- ▶ Emergency Medical Technician
- ▶ Energy & Industrial Technology
- ▶ Fire Science
- ▶ General Construction
- ▶ IT Security
- ▶ Law, Public Safety & Security
- ▶ Massage Therapy
- ▶ Medical Assisting
- ▶ Medium/Heavy Diesel Technology
- ▶ Pharmacy Technician
- ▶ Physical Therapy Technician
- ▶ Plumbing Trade Specialty
- ▶ Precision Machining
- ▶ Veterinary Sciences
- ▶ Welding Technology

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



TECHNOLOGY, LIFE & CAREERS

JUNIOR HIGH CAREER & TECHNICAL EDUCATION

Technology, Life & Careers is a unique two year course offered to all 7TH & 8TH grade students. This award-winning program provides the technology literacy, employability skills and career exploration students need for a smooth transition to high school and beyond.

COURSE SEQUENCE:

- Technology Life Careers – 7th grade
- Technology Life Careers – 8th grade

CAMPUS LOCATION:

All district elementary schools

STUDENT ORGANIZATIONS:



TECHNOLOGY LITERACY:

Assessments
Career Interest Inventories
Hands-on Lab Activities

EMPLOYABILITY SKILLS:

Interviewing
Resumé Writing
Soft Skill Development
Workplace Standards

TRANSITION TO HIGH SCHOOL:

Career Exploration Day
MyLife Day
Pre-registration for 9TH grade

CAREER EXPLORATION

TLC students explore careers within these fields to identify and narrow their interests and determine what career paths to pursue in more depth at the high school level.



Business, Marketing & Management

ACCOUNTING
BUSINESS MANAGEMENT
& ADMINISTRATION

FINANCE & INSURANCE
HOSPITALITY & TOURISM
MARKETING & PROFESSIONAL SALES



Communication & Information Systems

A/V TECHNOLOGY & FILM
JOURNALISM & BROADCASTING
NETWORK SYSTEMS

PROGRAMMING & SOFTWARE
DEVELOPMENT
WEB & DIGITAL COMMUNICATIONS



Environmental & Agricultural Systems

AGRIBUSINESS SYSTEMS
ANIMAL SYSTEMS
FOOD PRODUCTS & PROCESSING
SYSTEMS

NATURAL RESOURCE SYSTEMS
PLANT SYSTEMS
POWER, STRUCTURAL & TECHNICAL
SYSTEMS



Health Services

DIAGNOSTIC SERVICES
MEDICAL SUPPORT

RESEARCH & DEVELOPMENT
THERAPEUTIC SERVICES



Human Services & Resources

CONSUMER SERVICES
EDUCATION & TRAINING
GOVERNMENT & PUBLIC
ADMINISTRATION

FIRE MANAGEMENT
LAW & PUBLIC SAFETY
PERSONAL CARE



Industrial, Manufacturing & Engineering Systems

ARCHITECTURE & CONSTRUCTION
AUTOMOTIVE OPERATIONS
ENGINEERING & MATHEMATICS

MANUFACTURING & PRODUCTION
TRANSPORTATION, DISTRIBUTION
& LOGISTICS



BUSINESS, MARKETING & MANAGEMENT

ACCOUNTING
BUSINESS
FINANCE
HOSPITALITY
MARKETING

Each CTE Program in this Career Field is listed with their cut sheet including stackable credentials with programs of study.



COMMUNICATION & INFORMATION SYSTEMS

FILM & TV
SOFTWARE DEVELOPMENT
ADVANCED SOFTWARE

Each CTE Program in this Career Field is listed with their cut sheet including stackable credentials with programs of study.



ENVIRONMENTAL & AGRICULTURAL SYSTEMS

AGRICULTURE
ANIMAL SCIENCE
BIOTECHNOLOGY
SPORTS TURF

Each CTE Program in this Career Field is listed with their cut sheet including stackable credentials with programs of study.



HEALTH SERVICES

MEDICAL ASSISTING
NURSING
SPORTS MEDICINE

Each CTE Program in this Career Field is listed with their cut sheet including stackable credentials with programs of study.



HUMAN SERVICES & RESOURCES

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

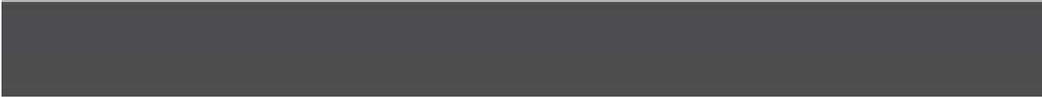
Each CTE Program in this Career Field is listed with their cut sheet including stackable credentials with programs of study.



INDUSTRIAL, MANUFACTURING & ENGINEERING SYSTEMS

AUTOMOTIVES
CONSTRUCTION
ENGINEERING
WELDING

Each CTE Program in this Career Field is listed with their cut sheet including stackable credentials with programs of study.



EXPLORE YOUR FUTURE NOW!

TALK TO YOUR COUNSELOR, OR VISIT [PEORIAUNIFIED.ORG/CTEWORKS](https://peoriaunified.org/cteworks)

FIND A PROGRAM THAT WORKS FOR YOU!

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

 <p>BUSINESS, MARKETING & MANAGEMENT</p> <p>ACCOUNTING BUSINESS FINANCE HOSPITALITY MARKETING</p>	 <p>COMMUNICATION & INFORMATION SYSTEMS</p> <p>FILM & TV SOFTWARE DEVELOPMENT ADVANCED SOFTWARE</p>	 <p>ENVIRONMENTAL & AGRICULTURAL SYSTEMS</p> <p>AGRICULTURE ANIMAL SCIENCE BIOTECHNOLOGY SPORTS TURF</p>
 <p>INDUSTRIAL, MANUFACTURING & ENGINEERING SYSTEMS</p> <p>AUTOMOTIVES CONSTRUCTION ENGINEERING WELDING</p>	 <p>HEALTH SERVICES</p> <p>MEDICAL ASSISTING NURSING SPORTS MEDICINE</p>	 <p>HUMAN SERVICES & RESOURCES</p> <p>AIR FORCE JROTC CULINARY FASHION EARLY CHILDHOOD ED EDUCATION FIRE SCIENCE LAW ENFORCEMENT</p>

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.



Funded by
West-MEC



PEORIA UNIFIED SCHOOL DISTRICT
(623) 486-6259
peoriaunified.org/cteworks

The Peoria Unified School District does not discriminate in its programs or activities on the basis of sex, race, creed, religion, color, national origin, age, veteran or military status, sexual orientation, gender expression or identity, disability, or the use of a trained dog guide in service animals and provides equal access to the Boy Scouts and other designated groups.

The Peoria Unified School District is an equal opportunity institution.

El Distrito Unificado de Peoria no discrimina en sus programas o actividades por motivos de sexo, raza, credo, religión, color, origen nacional, edad, condición de veterano o de guerra, estado militar, orientación sexual, expresión o identidad de género, discapacidad, o el uso de perros guía entrenados en servicio animal, y ofrece igualdad de acceso a los Boy Scouts y otros grupos designados.

Appendix R: Application Booklet



WHAT IS CTE?

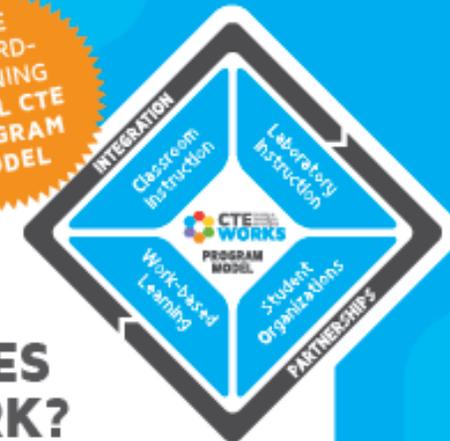
CAREER & TECHNICAL EDUCATION (CTE) IS AN EDUCATIONAL DELIVERY SYSTEM THAT PREPARES STUDENTS WITH THE ACADEMIC, TECHNICAL AND EMPLOYABILITY SKILLS, KNOWLEDGE, AND TRAINING THEY WILL NEED TO SUCCEED IN FUTURE CAREERS.



CTE PROVIDES HIGH SCHOOL STUDENTS:



THE
AWARD-
WINNING
TOTAL CTE
PROGRAM
MODEL



HOW DOES CTE WORK?

CTE PROGRAMS APPLY A UNIQUE LEARNING PROCESS THAT INCLUDES:

- HANDS-ON LEARNING
- REAL WORLD APPLICATION OF CONTENT
- STATE OF THE ART TECHNOLOGY
- WORK EXPERIENCE
- EMPLOYABILITY SKILLS

COLLEGE CREDIT

We partner with the following colleges and universities to offer dual enrollment so our students can earn college credit in a cost-effective way during high school.

- Maricopa Community College District: Estrella Mountain, Gateway, Glendale, Mesa & Rio Salado
- Arizona State University
- Northern Arizona University
- University of Arizona

As a result, students graduate with a high school diploma and credits toward a/an:

- Community College Certificate
- Bachelor's Degree
- Associate's Degree
- Industry Credential

The community college and university credits are offered at a reduced cost to high school students providing the opportunity to save time and money while getting a head start on college.

51 NUMBER OF CTE COURSES THAT OFFER COLLEGE CREDIT

INDUSTRY CERTIFICATION

An industry certification is a credential recognized by business and industry at the local, state, or national level. It can be an assessment, an exam, or a license that measures student mastery of knowledge and skills in a particular career. An industry certification can be earned during high school. We currently offer 86 industry certifications. These certifications can increase student job prospects, marketability, employability and meet college program requirements.

Fees may apply. However, tax credit dollars may be used to pay for these certifications.



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.



86 INDUSTRY CERTIFICATIONS OFFERED DURING HIGH SCHOOL

WORK-BASED LEARNING

We partner with Business & Industry to ensure students learn:

- Current technology
- Safety practices
- Work place standards
- Interpersonal & technical skills

Every CTE program has a work-based learning component that provides hands-on learning through job shadowing, internships, clinicals, and school site-based enterprises such as running the bookstore, working in the pre-school, managing a greenhouse and nursery, or working for PSBN (Peoria Student Broadcast Network). As a result, students gain:

- Career exposure
- Professional mentorship
- Work experience
- A business network

And our partners gain a qualified work force that ensures Arizona's economic development.

89%

PLACEMENT RATE:

high school graduates who placed in CTE Program-related education, work, or military career one year after graduation.



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.

MASTERY OF SUBJECT GRADUATION ENDORSEMENT

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 a CTE Student Organization
- Final approval from CTE teacher



345+ CTE MASTERY OF SUBJECT AREA:

graduation endorsements awarded - the equivalent of a college major earned during high school

CTE STUDENT ORGANIZATIONS

Our student organizations provide opportunities for:

- Leadership development & experience
- Competition at local, state & national levels
- Community service projects & hours
- Public speaking
- Networking
- Resumé building
- Scholarships
- Travel

94 CHAPTERS



Hospitality
Marketing



Accounting
Business
Film & TV
Finance
Software Development
Technology Life Careers



FASHION



Agriculture
Animal Science
Biotechnology
Sports Turf



Early Childhood Ed
Education



Air Force JROTC



Automotives
Construction
Culinary
Engineering
Fire Science
Law Enforcement
Technology Life Careers



Medical Assisting Nursing
Sports Medicine
Technology Life Careers

CO-ENROLLMENT

Co-enrollment refers to a Peoria Unified School District student applying to a CTE program offered on another high school campus within the district.

To apply for a CTE program on another campus, a student must follow these steps:

- STEP 1:** Student completes Student Co-Enrollment Form online
- STEP 2:** Parent completes Parent Co-Enrollment Form online
- STEP 3:** Counselor notifies student of admission to the program or wait list by end of the current school year

Co-enrollment forms are available at peoriaunified.org/cteworks.

99%

GRADUATION RATE:
STATE: 75% PUSD: 95%

PUSD CTE: 99%

OPEN ENROLLMENT

Open enrollment refers to a student currently enrolled in another district seeking to attend a Peoria Unified School District school.

To apply for Open Enrollment, a student must follow these steps:

- STEP 1:** Parent & Student complete an Open Enrollment form to apply for a variance to the chosen high school peoriaunified.org.
- STEP 2:** School Principal/Personnel notifies parent/student of admission to district and high school
- STEP 3:** If the CTE program is not offered at the new home school campus, Student & Parent must follow Steps 1-3 of the Co-Enrollment Process



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.

EXPLORE YOUR FUTURE NOW!

FIND A PROGRAM THAT WORKS FOR YOU!



BUSINESS, MARKETING & MANAGEMENT

ACCOUNTING
BUSINESS
FINANCE
HOSPITALITY
MARKETING



COMMUNICATION & INFORMATION SYSTEMS

FILM & TV
SOFTWARE DEVELOPMENT
ADVANCED SOFTWARE



ENVIRONMENTAL & AGRICULTURAL SYSTEMS

AGRICULTURE
ANIMAL SCIENCE
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.



HUMAN SERVICES & RESOURCES

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



PEORIA
UNIFIED SCHOOL DISTRICT

THE PEORIA UNIFIED SCHOOL DISTRICT IS AN EQUAL OPPORTUNITY EDUCATIONAL INSTITUTION. ALL PROGRAMS AND SERVICES ARE PROVIDED ON THE BASIS OF SEX, RACE, ETHNICITY, COLOR, RELIGION, ANCESTRY, AGE, AND HANDICAP. IF YOU ARE A PERSON WITH A DISABILITY AND YOU ARE HAVING DIFFICULTY ACCESSING ANY OF OUR SERVICES, PLEASE CONTACT US AT (617) 486-6259. WE WILL MAKE REASONABLE ACCOMMODATIONS AVAILABLE TO YOU. IF YOU ARE A PERSON WITH A DISABILITY AND YOU ARE HAVING DIFFICULTY ACCESSING ANY OF OUR SERVICES, PLEASE CONTACT US AT (617) 486-6259. WE WILL MAKE REASONABLE ACCOMMODATIONS AVAILABLE TO YOU.

Funded by
West-MEC

(623) 486-6259
peoriaunified.org/cteworks



Appendix S: School and District Program Quick Reference Guides

CTEWORKS @ CACTUS HIGH SCHOOL

2018-2019 SCHOOL YEAR



<p>BUSINESS, MARKETING & MANAGEMENT</p> <p>MARKETING - 9Ⓞ Marketing - Ⓞ Sports & Entertainment Marketing/Sales Adv. Marketing & Sales/Work Experience - Ⓞ Ⓞ Ⓞ for Eoon</p>	<p>COMMUNICATION & INFORMATION SYSTEMS</p> <p>FILM & TV - 6Ⓞ Media Technology Media Productions - Ⓞ Ⓞ CTE Internship SOFTWARE DEVELOPMENT - Ⓞ 9-10Ⓞ Computer Programming - Ⓞ Computer Science - Ⓞ ★ Game Design - Ⓞ Ⓞ CTE Internship</p>	<p>ENVIRONMENTAL & AGRICULTURAL SYSTEMS</p>	<p>HEALTH SERVICES</p> <p>SPORTS MEDICINE - Ⓞ 6Ⓞ Intro to Sports Med - Ⓞ Advanced Sports Med - Ⓞ Ⓞ CTE Internship</p>	<p>HUMAN SERVICES & RESOURCES</p> <p>AIR FORCE JROTC - Ⓞ Aerospace I Aerospace II Aerospace III Aerospace IV Leadership CULINARY - Ⓞ 9Ⓞ Intro to Culinary Creative Foods - Ⓞ Professional Cooking - Ⓞ Commercial Baking - Ⓞ CTE Internship EARLY CHILDHOOD ED - Ⓞ 15Ⓞ Child Development - Ⓞ COOP - Ⓞ Ⓞ Advanced COOP Work Experience - Ⓞ EDUCATION - Ⓞ 6Ⓞ FTA I - Ⓞ FTA II - Ⓞ Ⓞ CTE Internship LAW ENFORCEMENT - Ⓞ 6Ⓞ Criminal Justice Law Enforcement I - Ⓞ Law Enforcement II - Ⓞ Ⓞ CTE Internship</p>	<p>INDUSTRIAL, MANUFACTURING & ENGINEERING SYSTEMS</p> <p>AUTOMOTIVES - Ⓞ 6-9Ⓞ Auto I - Ⓞ Auto II - Ⓞ Auto III - Ⓞ Auto IV CTE Internship CONSTRUCTION - Ⓞ 9Ⓞ Building Trades I - Ⓞ Building Trades II - Ⓞ Ⓞ Building Trades III - Ⓞ CTE Internship</p>
---	---	--	--	--	--

These programs are available to all Peoria Unified School District students at these campuses.

<p>ACCOUNTING - 7Ⓞ CEHS, IHS, LHS BUSINESS - 16Ⓞ CEHS FINANCE - Ⓞ Ⓞ Ⓞ IHS, w/campus HOSPITALITY - Ⓞ 10Ⓞ R8KH9</p>	<p>ADVANCED SOFTWARE - Ⓞ 9-15Ⓞ CEHS, IHS, LHS, PH9</p>	<p>AGRICULTURE - Ⓞ 4Ⓞ PH8 ANIMAL SCIENCE - Ⓞ PH8 BIOTECHNOLOGY - 4Ⓞ PH9 SPORTS TURF - Ⓞ 4Ⓞ PH8</p>	<p>MEDICAL ASSISTING - Ⓞ 6.5Ⓞ CEHS, LHS, R8KH9 NURSING - Ⓞ 6.5Ⓞ SMH9</p>	<p>FASHION SMH8 FIRE SCIENCE - Ⓞ 9Ⓞ SMH8</p>	<p>ENGINEERING - Ⓞ 8-12Ⓞ CEHS, IHS, LHS, R8KH9, SMH9 WELDING - Ⓞ 6Ⓞ PH8</p>
---	--	--	--	--	---

- Ⓞ State Technical Assessment
- Ⓞ College Credits
- Ⓞ Core Class/Lab Credit
- Ⓞ w/campus On-site Class
- Ⓞ Home
- Ⓞ Industry Certification

- CAHS Cactus HS
- CGHS Centennial HS
- IBS Ironwood HS
- LBS Liberty HS
- PH8 Peoria HS
- R8KH9 Regency S. Hills HS
- SMH8 Sunrise Mountain HS

CTE programs allow students to provide dual enrollment credit for certifications, associate & bachelor degrees. CTE also partners with business & industry to provide work experience and industry certifications. Students may enroll in a CTE program on any campus and complete more than one program.

The Peoria Unified School District does not discriminate in any programs or activities on the basis of race, creed, religion, color, national origin, sex, sexual orientation, gender identity, marital status, pregnancy, disability, or the use of a trained dog guide or service animal. It provides equal access to its programs, activities and other designated youth groups.

El Distrito Escolar de Peoria no discrimina en sus programas o actividades por motivos de raza, credo, religión, color, origen nacional, sexo, orientación de género, identidad de género, estado matrimonial, embarazo, discapacidad, (discapacidad) o uso de perro guía entrenado o animal de servicio, y ofrece igualdad de acceso a los Grupos Juveniles y otros grupos de jóvenes designados.



(623) 486-6259
peoriaunified.org/cteworks
 Funded by West-MEC
The Peoria Unified School District is an Equal Opportunity Institution.

CTEWORKS @ CENTENNIAL HIGH SCHOOL

2018-2019 SCHOOL YEAR



BUSINESS, MARKETING & MANAGEMENT

ACCOUNTING - 7 ●
 Business Foundations - ● □
 Accounting I - ●
 Accounting II - ●
 CTE Internship
 BUSINESS - 16 ●
 Business Foundations - ● □
 Adv. Business Computer Applications - ● ●
 Business Administration / Work Experience
 MARKETING - 9 ●
 Marketing - ●
 Sports & Entertainment Marketing/Sales
 Adv. Marketing & Sales Work Experience - ● ● ● ● for Econ

COMMUNICATION & INFORMATION SYSTEMS

FILM & TV - 6 ●
 Media Technology
 Media Productions - ● ●
 CTE Internship
 SOFTWARE DEVELOPMENT - ● 9-15 ●
 Computer Programming - ●
 Computer Science - ● ★
 Game Design - ● ●
 CTE Internship
 ADVANCED SOFTWARE - ● 9-15 ●
 Computer Science Principles - ● ★
 AP Computer Science I - ● ★
 AP Computer Science Principles - ● ★
 CTE Internship

ENVIRONMENTAL & AGRICULTURAL SYSTEMS

HEALTH SERVICES

MEDICAL ASSISTING - ● 6.5 ●
 Medical Science
 Fundamentals of Allied Health/Lab - ● ●
 CTE Internship
 SPORTS MEDICINE - ● 6 ●
 Intro to Sports Med - ●
 Advanced Sports Med - ● ●
 CTE Internship

HUMAN SERVICES & RESOURCES

CULINARY - ● 9 ●
 Intro to Culinary
 Creative Foods - ●
 Professional Cooking - ●
 Commercial Baking - ●
 CTE Internship
 EARLY CHILDHOOD ED - ● 16 ●
 Child Development - ●
 COOP - ● ●
 Advanced COOP/Work Experience - ●
 EDUCATION - ● 6 ●
 FTA I - ●
 FTA II - ● ●
 CTE Internship
 LAW ENFORCEMENT - ● 6 ●
 Criminal Justice
 Law Enforcement I - ●
 Law Enforcement II - ● ●
 CTE Internship

INDUSTRIAL, MANUFACTURING & ENGINEERING SYSTEMS

AUTOMOTIVES - ● 6-9 ●
 Auto I - ●
 Auto II - ●
 Auto III - ●
 Auto IV
 CTE Internship
 CONSTRUCTION - ● 9 ●
 Building Trades I - ●
 Building Trades II - ● ●
 Building Trades III - ●
 CTE Internship
 ENGINEERING - ● 3-12 ●
 Engineering I - ● ★
 Engineering II - ● ★
 Engineering III - ● ● ★
 Engineering IV - ● ● ★
 CTE Internship

These programs are available to all Peoria Unified School District students at these campuses.

FINANCE - ● □ 3 ●

IHS, aCampus
 HOSPITALITY - ● 19 ●
 RSKHS

AGRICULTURE - ● 4 ●

PHS
 ANIMAL SCIENCE - ●
 PHS
 BIOTECHNOLOGY - 4 ●
 PHS
 SPORTS TURF - ● 4 ●
 PHS

NURSING - ● 6.5 ●

SMHS

AIR FORCE - ROTC - ●

CHS, PHS
 FASHION - SMHS
 FIRE SCIENCE - ● ● ●
 SMHS

WELDING - ● 6 ●

PHS

- State Technical Assessment
- College Credits
- Core Class/Lab Credit
- Campus Online Class
- ★ Honors
- Industry Certification

- CHS Central HS
- CKHS Centennial HS
- IHS Inwood HS
- LHS Liberty HS
- PHS Peoria HS
- RSKHS Raymond S. Kelly HS
- SMHS Santa Monica HS

CTE programs align with colleges to provide dual enrollment credit for certifications, associate & bachelor degrees. CTE also partners with business & industry to provide work experience, industry certifications. Students may enroll in a CTE program on any campus and complete more than one program.

The Peoria Unified School District does not discriminate in any program or activity on the basis of race, creed, religion, color, national origin, ancestry, marital status, sexual orientation, gender expression or identity, disability, or the use of a trained dog guide or service animal and provides equal access to the Boy Scouts and other designated youth groups.

El Distrito Escolar de Peoria no discrimina en sus programas o actividades por motivos de raza, credo, religión, color, origen nacional, ancestro, condición marital o género, orientación sexual, expresión de género o identidad, discapacidad o uso de perro guía entrenado o animal de servicio, y ofrece igualdad de acceso a los Boy Scouts y otros grupos designados para jóvenes.



(623) 486-6299
peoriaunified.org/cteworks
 Funded by West-MEC
The Peoria Unified School District is a member of the Illinois State Board of Education.

CTEWORKS @ IRONWOOD HIGH SCHOOL

2018-2019 SCHOOL YEAR



BUSINESS, MARKETING & MANAGEMENT

ACCOUNTING - 70
 Business Foundations - 0 0
 Accounting I - 0
 Accounting II - 0
 CTE Internship

FINANCE - 0 0 3
 Personal Finance I - 0 for Econ
 Personal Finance II - 0 0
 CTE Internship

MARKETING - 9 0
 Marketing - 0
 Sports & Entertainment Marketing/Sales
 Adv. Marketing & Sales Work Experience - 0 0 0 for Econ

COMMUNICATION & INFORMATION SYSTEMS

FILM & TV - 6 0
 Media Technology
 Media Productions - 0 0
 CTE Internship

SOFTWARE DEVELOPMENT - 0 9-15 0
 Computer Programming - 0
 Computer Science - 0 0 ★
 Game Design - 0 0
 CTE Internship

ADVANCED SOFTWARE - 0 9-15 0
 Computer Science Principles - 0 0 ★
 AP Computer Science I - 0 0 ★
 AP Computer Science Principles - 0 0 ★
 CTE Internship

ENVIRONMENTAL & AGRICULTURAL SYSTEMS

HEALTH SERVICES

SPORTS MEDICINE - 0 6 0
 Intro to Sports Med - 0
 Advanced Sports Med - 0 0
 CTE Internship

HUMAN SERVICES & RESOURCES

CULINARY - 0 9 0
 Intro to Culinary
 Creative Foods - 0
 Professional Cooking - 0
 Commercial Baking - 0
 CTE Internship

EARLY CHILDHOOD ED - 0 16 0
 Child Development - 0
 COOP - 0 0
 Advanced COOP/Work Experience - 0
 LAW ENFORCEMENT - 0 6 0
 Criminal Justice
 Law Enforcement I - 0
 Law Enforcement II - 0 0
 CTE Internship

INDUSTRIAL, MANUFACTURING & ENGINEERING SYSTEMS

AUTOMOTIVES - 0 6-9 0
 Auto I - 0
 Auto II - 0
 Auto III - 0
 Auto IV
 CTE Internship

CONSTRUCTION - 0 9 0
 Building Trades I - 0
 Building Trades II - 0 0
 Building Trades III - 0
 CTE Internship

ENGINEERING - 0 3-12 0
 Engineering I - 0 0 ★
 Engineering II - 0 0 ★
 Engineering III - 0 0 0 ★
 Engineering IV - 0 0 ★
 CTE Internship

BUSINESS - 16 0

CEHS
 HOSPITALITY - 0 16 0
 R8KH8

AGRICULTURE - 0 4 0

PHS
 ANIMAL SCIENCE - 0
 PHS
 BIOTECHNOLOGY - 4
 PHS
 SPORTS TURF - 0 4 0
 PHS

MEDICAL ASSISTING - 0 6.5 0

CEHS, LHS, R8KH8
 NURSING - 0 6.5 0
 SMH8

AIR FORCE - ROTC - 0

CHS, PHS
 EDUCATION - 0 0 0
 CHS, CEHS, SMH8
 FASHION
 SMH8
 FIRE SCIENCE - 0 0 0
 SMH8

WELDING - 0 6 0

PHS

- 0 State Technical Assessment
- 0 College Credits
- 0 Core Class/Lab Credit
- 0 Campus On-line Class
- ★ Honors
- 0 Industry Certification

- CHS Ciculus HS
- CEHS Central HS
- HS Ironwood HS
- LHS Liberty HS
- PHS Peoria HS
- R8KH8 Raymond S. Kello HS
- SMH8 Santa Maria HS

CTE programs align with colleges to provide dual enrollment credit for certifications, associate & bachelor degrees. CTE also partners with business & industry to provide work experience and industry certifications. Students may enroll in CTE programs on any campus and complete more than one program.

The Peoria Unified School District does not discriminate in any program or activity on the basis of race, creed, religion, color, national origin, ancestry, marital status, sexual orientation, gender expression or identity, disability, or the receipt of public or private financial aid or provide equal access to the Boy Scouts and other designated youth groups.

Il Distrito Escolar de Peoria no discrimina en sus programas o actividades por motivos de raza, credo, religion, color, origen nacional, edad, condición de familia o preferencias sexuales, orientación sexual, expresión de género o identidad, discapacidad pública o privada o estatus de inmigración, y ofrece igualdad de acceso a los Boy Scouts y otros grupos juveniles designados.



(623) 486-6259
peoriaunified.org/cteworks
 Funded by West-MEC
The Peoria Unified School District is an equal opportunity district.

CTEWORKS @ KELLIS HIGH SCHOOL

2018-2019 SCHOOL YEAR



<p>BUSINESS, MARKETING & MANAGEMENT</p> <p>HOSPITALITY - 18 ●●● Hospitality - ● Sports Management/ Hospitality - ● Advanced Hospitality - ●●● CTE Internship: NAF/ Hospitality - ●</p>	<p>COMMUNICATION & INFORMATION SYSTEMS</p> <p>FILM & TV - 6● Media Technology Media Productions - ●● CTE Internship SOFTWARE DEVELOPMENT - ● 9-15● Computer Programming - ● Computer Science - ●★ Game Design - ●● CTE Internship</p>	<p>ENVIRONMENTAL & AGRICULTURAL SYSTEMS</p>	<p>HEALTH SERVICES</p> <p>MEDICAL ASSISTING - ● 6.5● Medical Science Fundamentals of Allied Health/Lab - ●●● CTE Internship SPORTS MEDICINE - ● 6● Intro to Sports Med - ● Advanced Sports Med - ●●● CTE Internship</p>	<p>HUMAN SERVICES & RESOURCES</p> <p>CULINARY - ● 9● Intro to Culinary Creative Foods - ● Professional Cooking - ● Commercial Baking - ● CTE Internship EARLY CHILDHOOD ED - ● 16● Child Development - ● COOP - ●●● Advanced COOP/ Work Experience - ● LAW ENFORCEMENT - ● 6● Criminal Justice Law Enforcement I - ● Law Enforcement II - ●●● CTE Internship</p>	<p>INDUSTRIAL, MANUFACTURING & ENGINEERING SYSTEMS</p> <p>CONSTRUCTION - ● 9● Building Trades I - ● Building Trades II - ●● Building Trades III - ● CTE Internship ENGINEERING - ● 3-12● Engineering I - ●★ Engineering II - ●★ Engineering III - ●●★ Engineering IV - ●★ CTE Internship</p>
---	--	--	---	---	---

These programs are available to all Peoria Unified School District students at these campuses.

<p>ACCOUNTING - 7● CEHS, IH8, LH8 BUSINESS - 10● CEHS FINANCE - ● 13● IH8, eCampus MARKETING - 9● CH8, CEHS, IH8, LH8, PH8, SMH8</p>	<p>ADVANCED SOFTWARE - ● 9-15● CEHS, IH8, LH8, PH8</p>	<p>AGRICULTURE - ● 4● PH8 ANIMAL SCIENCE - ● PH8 BIOTECHNOLOGY - 4● PH8 SPORTS TURF - ● 4● PH8</p>	<p>NURSING - ● 6.5● SMH8</p>	<p>AIR FORCE JROTC - ● CH8, PH8 EDUCATION - ● 6● CH8, CEHS, SMH8 FASHION SMH8 FIRE SCIENCE - ● 9● SMH8</p>	<p>AUTOMOTIVES - ● 8-9● CH8, CEHS, IH8, PH8, SMH8 WELDING - ● 6● PH8</p>
---	---	---	---	---	---

<ul style="list-style-type: none"> ● State Technical Assessment ● College Credit ● Core Class/Lab Credit ● eCampus Online Class ★ Honors ● Industry Certification 	<p>CHS Cactus HS CEHS Central HS IHS Inwood HS LHS Liberty HS PH8 Peoria HS RMH8 Regency S. Hills HS SMH8 Service Mountain HS</p>	<p>CTE programs align with colleges to provide dual enrollment credit for certifications, associate & bachelor degrees. CTE also partners with business & industry to provide work experience and industry certifications. Students may enroll in CTE programs on any campus and complete more than one program.</p>	<p>The Peoria Unified School District does not discriminate in any programs or activities on the basis of race, creed, religion, color, national origin, sex, sexual orientation, gender, age, marital status, disability, or the use of a trained dog guide or service animal. It provides equal access to its programs and other benefits to youth groups.</p> <p>El Distrito Escolar de Peoria no discrimina en sus programas o actividades con motivo de raza, raza, credo, religión, color, origen nacional, sexo, orientación de género, edad, estado civil, discapacidad, o el uso de un perro guía o animal de servicio. Ofrece igualdad de acceso a los programas y otros beneficios a los grupos juveniles.</p>			<p>(623) 486-6259 peoriaunified.org/cteworks Funded by West-MEC</p>
---	---	--	---	--	--	---

CTEWORKS @ LIBERTY HIGH SCHOOL

2018-2019 SCHOOL YEAR



BUSINESS, MARKETING & MANAGEMENT

ACCOUNTING - 7

- Business Foundations -
- Accounting I -
- Accounting II -
- CTE Internship

MARKETING - 9

- Marketing -
- Sports & Entertainment Marketing/Sales
- Adv. Marketing & Sales Work Experience - for Econ

COMMUNICATION & INFORMATION SYSTEMS

FILM & TV - 6

- Media Technology
- Media Productions -
- CTE Internship

SOFTWARE DEVELOPMENT - 9-15

- Computer Programming -
- Computer Science -
- Game Design -
- CTE Internship

ADVANCED SOFTWARE - 9-15

- Computer Science Principles -
- AP Computer Science I -
- AP Computer Science Principles -
- CTE Internship

ENVIRONMENTAL & AGRICULTURAL SYSTEMS

HEALTH SERVICES

MEDICAL ASSISTING - 6.5

- Medical Science
- Fundamentals of Allied Health/Lab -
- CTE Internship

SPORTS MEDICINE - 6

- Intro to Sports Med -
- Advanced Sports Med -
- CTE Internship

HUMAN SERVICES & RESOURCES

CULINARY - 9

- Intro to Culinary
- Creative Foods -
- Professional Cooking -
- Commercial Baking -
- CTE Internship

EARLY CHILDHOOD ED - 16

- Child Development -
- COOP -
- Advanced COOP/Work Experience -

LAW ENFORCEMENT - 6

- Criminal Justice
- Law Enforcement I -
- Law Enforcement II -
- CTE Internship

INDUSTRIAL, MANUFACTURING & ENGINEERING SYSTEMS

ENGINEERING - 3-12

- Engineering I -
- Engineering II -
- Engineering III -
- Engineering IV -
- CTE Internship

BUSINESS - 16

- CEHS
- FINANCE - 3
- IHS, eCampus
- HOSPITALITY - 16
- RSKHS

AGRICULTURE - 4

- PHS

ANIMAL SCIENCE -

- PHS

BIOTECHNOLOGY - 4

- PHS

SPORTS TURF - 4

- PHS

NURSING - 6.5

- SMH

AIR FORCE JROTC -

- CHS, PHS

EDUCATION - 6

- CHS, CEHS, SMH

FASHION

- SMH

FIRE SCIENCE - 6

- SMH

AUTOMOTIVES - 6-9

- CHS, CEHS, IHS, PHS, SMHS

CONSTRUCTION - 6

- CHS, CEHS, IHS, PHS, RSKHS

WELDING - 6

- PHS

- State Technical Assessment
- College Credit
- Core Class/Lab Credit
- eCampus Online Class
- Honors
- Industry Certification

- CHS Cactus HS
- CEHS Centennial HS
- IHS Inwood HS
- LHS Liberty HS
- PHS Peoria HS
- RSKHS Raymond S. Kelly HS
- SMH Sontag Mountain HS

CTE programs align with colleges to provide dual enrollment credit for certifications, associate & bachelor degrees. CTE also partners with business & industry to provide work experience and industry certifications. Students may enroll in CTE programs on any campus and complete work from one program.

The Peoria Unified School District does not discriminate in any programs or activities on the basis of race, creed, religion, color, ethnic national, PHS, creed or sex. We are an equal opportunity employer and we are committed to providing a safe and healthy work environment for all employees. We are an equal opportunity employer and we are committed to providing a safe and healthy work environment for all employees.



(623) 486-6259
peoriaunified.org/cteworks
 Funded by West-MEC
 The Peoria Unified School District is a member of the West-MEC.

CTEWORKS @ PEORIA HIGH SCHOOL

2018-2019 SCHOOL YEAR



BUSINESS, MARKETING & MANAGEMENT

MARKETING - 9

- Marketing -
- Sports & Entertainment Marketing/Sales
- Adv. Marketing & Sales Work Experience - for Econ

COMMUNICATION & INFORMATION SYSTEMS

FILM & TV - 6

- Media Technology
- Media Productions -
- CTE Internship

SOFTWARE DEVELOPMENT - 9-15

- Computer Programming -
- Computer Science - *
- Game Design -
- CTE Internship

ADVANCED SOFTWARE - 9-15

- Computer Science Principles - *
- AP Computer Science I - *
- AP Computer Science Principles - *
- CTE Internship

ENVIRONMENTAL & AGRICULTURAL SYSTEMS

AGRICULTURE - 4

- Agriculture I - LAB
- Agriculture II - for Biology
- Agriculture III -
- Agriculture IV
- Agriculture Mechanics

ANIMAL SCIENCE -

- Animal Science I
- Animal Science II
- Animal Science III -
- Animal Science IV

BIOTECHNOLOGY - 4

- Agriculture I - LAB
- Agriculture II - for Biology
- Biotechnology - *

SPORTS TURF - 4

- Nursery Management
- Agriculture I Core LAB
- Agriculture II - for Biology
- Agriculture III -
- Agriculture IV

HEALTH SERVICES

SPORTS MEDICINE - 6

- Intro to Sports Med -
- Advanced Sports Med -
- CTE Internship

HUMAN SERVICES & RESOURCES

AIR FORCE JROTC -

- Aerospace I
- Aerospace II
- Aerospace III
- Aerospace IV
- Leadership

CULINARY - 9

- Intro to Culinary
- Creative Foods -
- Professional Cooking -
- Commercial Baking -
- CTE Internship

EARLY CHILDHOOD ED - 16

- Child Development -
- COOP -
- Advanced COCP/Work Experience -

INDUSTRIAL, MANUFACTURING & ENGINEERING SYSTEMS

AUTOMOTIVES - 6-9

- Auto I -
- Auto II -
- Auto III -
- Auto IV
- CTE Internship

CONSTRUCTION - 9

- Building Trades I -
- Building Trades II -
- Building Trades III -
- CTE Internship

WELDING - 6

- Welding I
- Welding II -
- CTE Internship

These programs are available to all Peoria Unified School District students at these campuses.

ACCOUNTING - 7

- CEHS, IH8, LH8

BUSINESS - 16

- CEHS

FINANCE - 3

- IHS, eCampus

HOSPITALITY - 18

- RSKH8

MEDICAL ASSISTING - 6.5

- CEHS, LHS, RSKH8

NURSING - 6.5

- SMH8

EDUCATION - 6

- CHS, CEHS, SMH8

FASHION - 8M8

FIRE SCIENCE - 9

- 8M8

LAW ENFORCEMENT - 6

- CHS, CEHS, IH8, LH8, RSKH8, SMH8

ENGINEERING - 8-12

- CEHS, IH8, LH8, RSKH8, SMH8

- State Technical Assessment
- College Credit
- Core Class/Lab Credit
- eCampus On-line Class
- Honors
- Industry Certification

- CHS
- CEHS
- IHS
- LHS
- PEHS
- RSKH8
- SMH8
- Sanita Mountain HS

CTE programs align with colleges to provide dual enrollment credit for certifications, associate & bachelor degrees. CTE also partners with business & industry to provide work experience and industry certifications. Students may enroll in a CTE program on any campus and complete more than one program.

The Peoria Unified School District does not discriminate in any program or activity on the basis of race, creed, religion, color, national origin, sex, marital or military status, sexual orientation, gender expression or identity, disability or the use of a trained dog guide or service animal and provides equal access to the Boy Scouts and other designated youth groups.

El Distrito Escolar de Peoria no discrimina en sus programas o actividades con base de raza, credo, religión, color, origen nacional, edad, condición de matrimonio, orientación sexual, expresión de género o identidad, sexo o estado civil o uso de perro guía o animal de servicio, y ofrece igualdad de acceso a los Boy Scouts y a otros grupos de jóvenes apropiados.



(623) 486-6259
peoriaunified.org/cteworks
 Funded by West-MEC

CTEWORKS @ SUNRISE MOUNTAIN HIGH SCHOOL

2018-2019 SCHOOL YEAR



<p>BUSINESS, MARKETING & MANAGEMENT</p> <p>MARKETING - 9 ●</p> <ul style="list-style-type: none"> Marketing - ● Sports & Entertainment Marketing/Sales Adv. Marketing & Sales Work Experience - ●●● ● for Econ 	<p>COMMUNICATION & INFORMATION SYSTEMS</p> <p>FILM & TV - 6 ●</p> <ul style="list-style-type: none"> Media Technology Media Productions - ● ● CTE Internship <p>SOFTWARE DEVELOPMENT - ● 9-15 ●</p> <ul style="list-style-type: none"> Computer Programming - ● Computer Science - ● ★ Game Design - ● ● CTE Internship 	<p>ENVIRONMENTAL & AGRICULTURAL SYSTEMS</p>	<p>HEALTH SERVICES</p> <p>NURSING - ● 6.5 ●</p> <ul style="list-style-type: none"> Medical Science Intro to Health Careers - ● Patient Care Careers Lab - ● ● CTE Internship <p>SPORTS MEDICINE - ● 6 ●</p> <ul style="list-style-type: none"> Intro to Sports Med - ● Advanced Sports Med - ● ● CTE Internship 	<p>HUMAN SERVICES & RESOURCES</p> <p>EARLY CHILDHOOD ED - ● 16 ●</p> <ul style="list-style-type: none"> Child Development - ● COOP - ● ● Advanced COOP/Work Experience - ● <p>FASHION</p> <ul style="list-style-type: none"> Design & Merchandising I Design & Merchandising II - ● CTE Internship <p>EDUCATION - ● 6 ●</p> <ul style="list-style-type: none"> FTA I - ● FTA II - ● ● Cte Internship <p>FIRE SCIENCE - ● 9 ●</p> <ul style="list-style-type: none"> Medical Science Fire Suppression - ● Fire Service - ● ● CTE Internship <p>LAW ENFORCEMENT - ● 6 ●</p> <ul style="list-style-type: none"> Criminal Justice Law Enforcement I - ● Law Enforcement II - ● ● CTE Internship 	<p>INDUSTRIAL, MANUFACTURING & ENGINEERING SYSTEMS</p> <p>AUTOMOTIVES - ● 6-9 ●</p> <ul style="list-style-type: none"> Auto I - ● Auto II - ● Auto III - ● Auto IV CTE Internship <p>ENGINEERING - ● 3-12 ●</p> <ul style="list-style-type: none"> Engineering I - ● ★ Engineering II - ● ★ Engineering III - ● ● ★ Engineering IV - ● ● ★ CTE Internship
--	---	--	---	---	--

These programs are available to all Peoria Unified School District students at these campuses.

<p>ACCOUNTING - 7 ●</p> <p>CEHS, IHS, LHS</p> <p>BUSINESS - 16 ●</p> <p>CEHS</p> <p>RNANCE - ● 3 ●</p> <p>IHS, eCampus</p> <p>HOSPITALITY - ● 19 ●</p> <p>RSHHS</p>	<p>ADVANCED SOFTWARE - ● 9-15 ●</p> <p>CEHS, IHS, LHS, PHS</p>	<p>AGRICULTURE - ● 4 ●</p> <p>PHS</p> <p>ANIMAL SCIENCE - ●</p> <p>PHS</p> <p>BIOTECHNOLOGY - 4 ●</p> <p>PHS</p> <p>SPORTS TURF - ● 4 ●</p> <p>PHS</p>	<p>MEDICAL ASSISTANT - ● 6.5 ●</p> <p>CEHS, LHS, RSHHS</p>	<p>AIR FORCE JROTC - ●</p> <p>CHS, PHS</p> <p>CULINARY - ● 9 ●</p> <p>CHS, CEHS, IHS, LHS, PHS, RSHHS</p>	<p>CONSTRUCTION - ● 9 ●</p> <p>CHS, CEHS, IHS, PHS, RSHHS</p> <p>WELDING - ● 6 ●</p> <p>PHS</p>
---	--	--	--	---	---

- State Technical Assessment
- College Credit
- Core Class/Lab Credit
- eCampus/Online Class
- ★ Honors
- Industry Certification

- CHS Cactus HS
- CEHS Centennial HS
- IHS Inwood HS
- LHS Liberty HS
- PHS Peoria HS
- RSHHS Raymond S. Hilly HS
- SMS Sunrise Mountain HS

CTE programs align with colleges to provide dual enrollment credit for certification, associate & bachelor degrees. CTE also partners with business & industry to provide work experience and industry certifications. Students may complete CTE program on any campus and complete more than one program.

The Peoria Unified School District does not discriminate in any program or activity on the basis of race, sex, creed, religion, color, national origin, ancestry, marital status, sexual orientation, gender expression or identity, disability, or the use of a trained dog guide or service animal and provides equal access to facility, services and other designated youth groups.

El Distrito Escolar de Peoria no discrimina en sus programas o actividades por motivos de raza, sexo, credo, religión, color, origen nacional, edad, condición de guerra o graduación, orientación sexual, expresión de género o identidad, discapacidad o el uso de un perro guía o animal de servicio, y ofrece igualdad de acceso a las instalaciones y otros grupos de jóvenes designados.



(623) 486-6259

peoriaunified.org/cteworks

Funded by

West-MEC

The Peoria Unified School District is a member of the West-MEC.

CTEWORKS IN PEORIA UNIFIED SCHOOL DISTRICT

2018-2019 SCHOOL YEAR

	CACTUS	CENTENNIAL	IRONWOOD	LIBERTY	PEORIA	KELLIS	SUNRISE
BUSINESS, MARKETING & MANAGEMENT	MARKETING - 9	ACCOUNTING - 7 BUSINESS - 16 MARKETING - 9	ACCOUNTING - 10 FINANCE - 3 MARKETING - 9	ACCOUNTING - 10 MARKETING - 9	MARKETING - 9	HOSPITALITY - 18	MARKETING - 9
COMMUNICATION & INFORMATION SYSTEMS	FILM & TV - 6 SOFTWARE DEVELOPMENT - 9-15	FILM & TV - 6 SOFTWARE DEVELOPMENT - 9-15 ADV. SOFTWARE - 9-15	FILM & TV - 6 SOFTWARE DEVELOPMENT - 9-15 ADV. SOFTWARE - 9-15	FILM & TV - 6 SOFTWARE DEVELOPMENT - 9-15 ADV. SOFTWARE - 9-15	FILM & TV - 6 SOFTWARE DEVELOPMENT - 9-15 ADV. SOFTWARE - 9-15	FILM & TV - 6 SOFTWARE DEVELOPMENT - 9-15	FILM & TV - 6 SOFTWARE DEVELOPMENT - 9-15
ENVIRONMENTAL & AGRICULTURAL SYSTEMS					AGRICULTURE - 4 ANIMAL SCIENCE - 1 BIOTECHNOLOGY - 4 SPORTS TURF - 4		
HEALTH SERVICES	SPORTS MEDICINE - 6	MEDICAL ASSISTING - 6.5 SPORTS MEDICINE - 6	SPORTS MEDICINE - 6	MEDICAL ASSISTING - 6.5 SPORTS MEDICINE - 6	SPORTS MEDICINE - 6	MEDICAL ASSISTING - 6.5 SPORTS MEDICINE - 6	NURSING - 6.5 SPORTS MEDICINE - 6
HUMAN SERVICES & RESOURCES	AIR FORCE JROTC - 1 CULINARY - 9 EARLY CHILDHOOD ED - 16 EDUCATION - 6 LAW ENFORCEMENT - 6	CULINARY - 9 EARLY CHILDHOOD ED - 16 EDUCATION - 6 LAW ENFORCEMENT - 6	CULINARY - 9 EARLY CHILDHOOD ED - 16 LAW ENFORCEMENT - 6	CULINARY - 9 EARLY CHILDHOOD ED - 16 LAW ENFORCEMENT - 6	AIR FORCE JROTC - 1 CULINARY - 9 EARLY CHILDHOOD ED - 16	CULINARY - 9 EARLY CHILDHOOD ED - 16 LAW ENFORCEMENT - 6	EARLY CHILDHOOD ED - 16 EDUCATION - 6 FASHION FIRE SCIENCE - 9 LAW ENFORCEMENT - 6
INDUSTRIAL, MANUFACTURING & ENGINEERING SYSTEMS	AUTOMOTIVES - 6-9 CONSTRUCTION - 9	AUTOMOTIVES - 6-9 CONSTRUCTION - 9 ENGINEERING - 3-12	AUTOMOTIVES - 6-9 CONSTRUCTION - 9 ENGINEERING - 3-12	ENGINEERING - 3-12	AUTOMOTIVES - 6-9 CONSTRUCTION - 9 WELDING - 6	ENGINEERING - 3-12 CONSTRUCTION - 9	AUTOMOTIVES - 6-9 ENGINEERING - 3-12

- State Technical Assessment
- College Credits
- Classes On-line Class
- Industry Certification

CTE programs align with colleges to provide dual enrollment credit for certifications, associate & bachelor degrees. CTE also partners with business & industry to provide work experience and industry certifications. Students may enroll in a CTE program on any campus and complete more than one program.

The Peoria Unified School District does not discriminate in any program or activity on the basis of sex, race, religion, color, national origin, age, handicap or other protected status, gender expression or identity, ancestry, ethnicity or a related status, or sexual orientation and gender expression in the Peoria Unified School District.

© District Board of Peoria Unified School District. All rights reserved. No part of this document may be reproduced without the prior written permission of the District Board of Peoria Unified School District. All rights reserved.



(623) 486-6259
peoriaunified.org/cteworks
 Funded by West-MEC
 The Peoria Unified School District is a public school district in Peoria, Illinois.

Back side of each of the eight reference guides above:

WEST-MEC CENTRAL PROGRAMS 2018-2019 SCHOOL YEAR

1 CENTRAL CAMPUS

6997 N. GLEN HARBOR BLVD.
GLENDALE, AZ 85307

AVIATION MAINTENANCE TECHNOLOGY

Length: 2 Yrs. 12 HS Credits

AVIONICS/ELECTRONICS

Length: 2 Yrs. 6 HS Credits

CODING

Length: 2 Yrs. 6 HS Credits

LAW, PUBLIC SAFETY AND SECURITY

Length: 2 Yrs. 6 HS Credits

PRECISION MANUFACTURING

Length: 2 Yrs. 6 HS Credits

WELDING TECHNOLOGY

Length: 2 Yrs. 6 HS Credits

2 NORTHEAST CAMPUS

1617 W. WILLIAMS DR.
PHOENIX, AZ 85027

AIR CONDITIONING TECHNICIAN

Length: 1 Yr. 4 HS Credits

AUTOMOTIVE COLLISION TECHNOLOGY

Length: 2 Yrs. 6 HS Credits

AUTOMOTIVE TECHNOLOGY

Length: 2 Yrs. 6 HS Credits

ELECTRICAL TRADE SPECIALITY

Length: 1 Yr. 3 HS Credits

GENERAL CONSTRUCTION TECHNOLOGY

Length: 1 Yr. 4 HS Credits

MEDICAL ASSISTING

Length: 1 Yr. 5.5 HS Credits

MEDICAL ASSISTING

Length: 2 Yrs. 6 HS Credits

MEDIUM/HEAVY DIESEL TECHNOLOGY

Length: 2 Yrs. 6 HS Credits

PHARMACY TECHNICIAN

Length: 1 Yr. 3 HS Credits

VETERINARY SCIENCES

Length: 1 Yr. 5.5 HS Credits

VETERINARY SCIENCES

Length: 2 Yrs. 6 HS Credits

1 NORTHWEST CAMPUS

13201 W. GRAND AVE.
SURPRISE, AZ 85374

DENTAL ASSISTING

Length: 2 Yrs. 6 HS Credits

HAIR STYLING

Length: 2 Yrs. 12 HS Credits

IT SECURITY

Length: 2 Yrs. 6 HS Credits

LAW, PUBLIC SAFETY AND SECURITY

Length: 2 Yrs. 6 HS Credits

MEDICAL ASSISTING

Length: 2 Yrs. 6 HS Credits

PHYSICAL THERAPY TECHNICIAN

Length: 1 Yr. 3 HS Credits

VETERINARY SCIENCES

Length: 1 Yr. 5.5 HS Credits

VETERINARY SCIENCES

Length: 2 Yrs. 6 HS Credits

1 SOUTHWEST CAMPUS

500 N. VERRADO WAY
BUCKEYE, AZ 85326

ENERGY & INDUSTRIAL TECHNOLOGY

Length: 2 Yrs. 6 HS Credits:
Occupational Only—No Perkins
Funding Available

GENERAL CONSTRUCTION TECHNOLOGY

Length: 1 Yr. 4 HS Credits

IT SECURITY

Length: 2 Yrs. 6 HS Credits

MEDICAL ASSISTING

Length: 1 Yr. 5.5 HS Credits

MEDICAL ASSISTING

Length: 2 Yrs. 6 HS Credits

PHARMACY TECHNICIAN

Length: 1 Yr. 3 HS Credits

WELDING TECHNOLOGY

Length: 2 Yrs. 6 HS Credits

PARTNER PROGRAMS

AESTHETICIAN

Length: 1 Yr. 4.5 HS Credits

- 1 Getaway Community College
Deer Valley Campus
2931 W. Bell Rd.
Phoenix, AZ 85023

COSMETOLOGY

Length: 2 Yrs. 12 HS Credits

- 1 Getaway Community College
Deer Valley Campus
2931 W. Bell Rd.
Phoenix, AZ 85023

EMERGENCY MEDICAL TECHNICIAN

Length: 1 Yr. 2 HS Credits

- 1 Estrella Mtn. Community College
3000 N. Dysart Rd.
Avondale, AZ 85392

- 1 Getaway Community College
Deer Valley Campus
2931 W. Bell Rd.
Phoenix, AZ 85023

FIRE SCIENCE

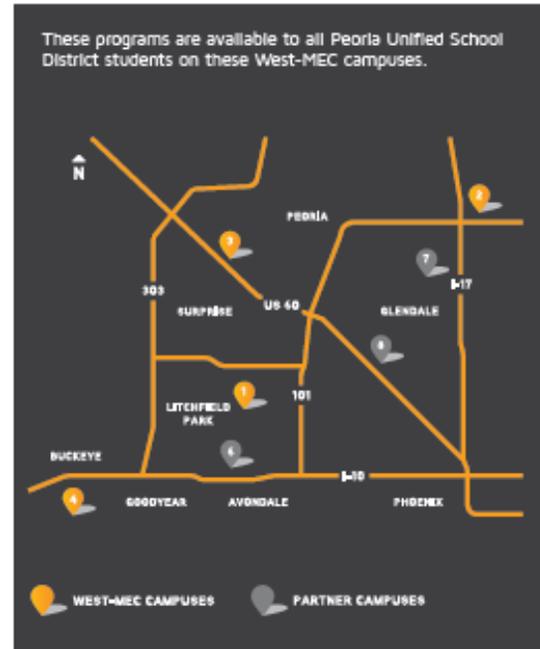
Length: 1 Yr. 2 HS Credits

- 1 Glendale Community College
6000 W. Olive Ave.
Glendale, AZ 85302
(Located in Public Safety Building)

MESSAGE THERAPY

Length: 1 Yr. 5.5 HS Credits

- 1 Getaway Community College
Deer Valley Campus
2931 W. Bell Rd.
Phoenix, AZ 85023



Appendix T: Pictures and Articles



THE ELKS CHATTER

September, 2018 Sun City, Arizona

Volume 39, No. 5

Chartered May 15, 1977

All American Lodge / AEA Lodge of the Year 2018



SID PALMER
Exalted Ruler

EXALTED RULER'S MESSAGE

To those of you that left our valley for a cooler climate, welcome back. I trust you and all our members have had a safe and enjoyable summer. As we move into the cooler months and we again become busy, please remember your obligation when you became a member. Be proud to show your card as you enter the Lodge and sign in any guests you may have brought.

If you attend the monthly Lodge meetings, and I hope you do as this is where business is conducted, please remember to not pass between the altar and the station of the Exalted Ruler except as ritual requires or so ordered by the Exalted Ruler. This space is considered sacred in memory of our departed brothers and sisters.

The Elks have a beautiful ritual called the "Eleven O'clock Toast" which is given in honor of our missing and departed brothers and sisters. This toast is given near the close of Wednesday and Friday night activities, as well as other appropriate occasions. Please try to remain in the dining room or lounge and join us as we remember our missing members, and give thanks to this, the finest country in the world. It only takes a moment of your time, but it is part of who we are.

Page 5 of 12:

Calling all geeks, techies, engineers, educators, and businessmen and women who would like to share their expertise with Peoria Unified School District (PUSD) students.

We are looking for members to help students learn current technology, work place standards, and skills needed to be successful. You could be a classroom speaker, work with the robotics teams, do general mentoring, and participate in many other school programs.

PUSD has an innovative technology program and is very excited to partner with the Sun City Elks in any way we can further their success.

Please call or email me with your interest. We will set up a meeting later this month to get started. This could be a lot of fun.

Bob Jeschke, Grant Coordinator
602-527-7981
rieschke@cox.net