BASHA HIGH SCHOOL

INSTITUTE OF CYBER OPERATIONS AND NETWORKING

10 August 2021

PATHWAY PARTNERSHIPS

Basha High School

Preparation for your chosen path

Chandler-Gilbert Community College

Associates Degree

The University of Arizona at Chandler

Bachelor of Applied Science in Cyber Operations

Advanced Business Learning

Industry Certification Employment

THE INDUSTRY

OBJECTIVE

To protect computer systems, software, data, and people, from attacks, disruptions, theft, unauthorized access and damage

THE NEED

Security is needed in *every* domain – education, private sector, corporate, government, medical, financial, automotive, infrastructure, military – if you can connect it or it stores data it must be protected

WHY

Verizon's 2021 Data Breach Investigations Report: Human Interaction Plays a Part in Most Breaches

(May 13, 2021)

85% of Data Breaches Involve Human Interaction: Verizon DBIR

First gas, now meat: Latest cybersecurity attack shows criminals are expanding their scope

Taiwan authorities look into Apple supplier hack

April 22, 2021 · 2 min read

The Guardian

UK Covid-related cybercrime fuels 15-fold

NI: Cyber Is The mmon Weapon Among p Adversaries

2021 | By John A. Tirpak

Ferry service to Martha's Vineyard targeted by ransomware attack

Bose co
ransomware att
exposed employee data

ransomware

solar

NBC News via Yahoo

Hackers release personal info of 22 D.C. police officers

Biden signs cybersecurity executive order in the wake of pipeline shutdown

10 August 2021

Ransomware knows no bounds – according to CyberSecurity Ventures, a business will fall victim to a ransomware attack every 11 seconds.

While we are here for a couple of hours, that will equate to around 654 ransomware attacks

PREPARING FOR TODAY AND BEYOND

10 August 2021

CYBER MARKET OPPORTUNITY

$72, 723

Average Salary

- The unemployment rate for cyber security is zero 3/4/2020. (cyberseek.org)
- Entry cyber security positions are well paying, there is something for every level of education!
  (6) Range 51k – 110k DOE and Certifications

3.5m

Open Positions

- "3.5 million unfilled positions in the industry by 2021" This statistic is still holding. (4)

JOB MARKET GLANCE

2021 – nearly 464,420 cyber job openings across country, Arizona's job openings = ~13,069

Job Openings

Cyberseek.org & BLS

Fastest-growing career areas nationally – 31% growth through 2029, over seven times faster than the national average job growth of 4%

Job Growth

BLS & Forbes.com

Employers are looking for hands-on experience, soft skills (communication), certifications, and continual learners.

Job Desires

UCSD & Dice

CURRICULUM

Your Students' BHS Options with ICON

10 August 2021

HIGH SCHOOL ADVANTAGE

TAKING THESE COURSES AT THE HIGH SCHOOL LEVEL LETS YOUR STUDENT STAY AT THEIR HOME SCHOOL AND TAKE ADVANTAGE OF OTHER PROGRAMS AND ACTIVITIES OFFERED

Entry Point(s)

Students may enter the cyber program at any point while in high school. The *program* entry point is CIS 105, BCP 170 and BCP 270.

Other Programs

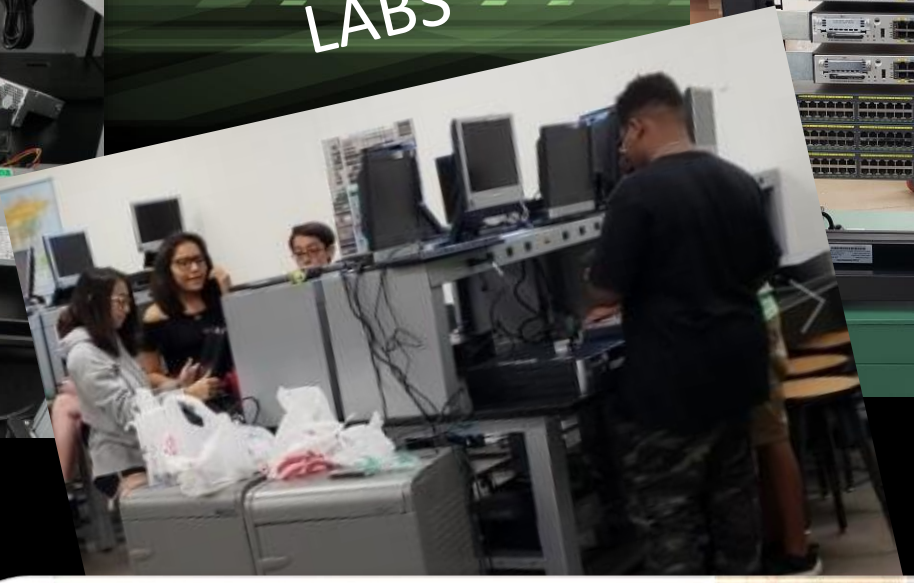
Students may still participate in athletics, drama, AF JROTC, band and other school clubs.

CTE Advantages

We are a CTE program which means Hands-on learning, industry advisory, CTF competitions, speakers, leadership and career development.

Hands-On

LABS



30 Stations one per student

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CERTIFICATION EXAMS

INDUSTRY LEVEL CERTIFICATIONS ALLOW YOUR STUDENT TO DEMONSTRATE THEIR ABILITIES TO POTENTIAL EMPLOYERS

Completer Track – 2yr

IT Fundamentals

A+

Network+

Linux +

Technology Only – 3yr

All prior listed certifications

Security Pro

PCEP (Python Certified Entry-level Programmer) First high school in district to offer two (2) programming languages

Post-Secondary Option

All prior listed certifications

Students will be close to their AAS degree from CGCC with transferable credit to universities or into a career

TESTING VOUCHERS

- CTE will purchase **ONE** testing voucher per student during the length of the program
- Our program is four years, so in that four-year period your student would receive one prepaid voucher from us
- YOU can purchase vouchers for your student at half price as well, because we are a CompTIA Academic Partner and your teen is a student
- Imagine paying an average of $150/voucher * 200 students each year that would be $22,000 just in testing vouchers – not sustainable

CYBER CAREER OPTIONS
Many other options in IT also available

Entry Level	Penetration (Pen) Tester	IT Security Consultant
	Ethical Hacker	IT Security Specialist
	Junior Linux Administrator / Network Administrator	
Specialized Certifications	Security Analyst	Security Engineer
	Vulnerability Analyst	Cybersecurity Specialist
	Computer Forensics Tech	Cybersecurity Analyst
	Linux Database Administrator	Risk Management
College Bound Options	Security Director	IT Project Manager
	Security Manager	Security Architect
	Security Auditor	CISO – Chief Info Security Officer
	Cyber Law	

PARTNERSHIPS

Manny Hernandez – Chandler Gilbert Community College

10 August 2021

Cybersecurity Program Partnership

BASHA HIGH SCHOOL

CHANDLER-GILBERT COMMUNITY COLLEGE
A MARICOPA COMMUNITY COLLEGE

THE UNIVERSITY OF ARIZONA
Chandler

Manuel Hernandez

College Advisor

- Manuel.Hernandez@cgc.edu
- Office. 480.276.4208
- Basha. 480.224.2234

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Partnership

Chandler-Gilbert Community College is proud to partner with Basha High School and University of Arizona Chandler on the Cybersecurity Program Partnership.

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Cybersecurity Program Benefits

- Earn an AAS in Cybersecurity
- Seamless admissions into UofA's Bachelor of Applied Science in Cyber Operations
- Tuition Savings – Earn 75 credits through CGCC at an AFFORDABLE cost
- Remaining 45 credits through UofA at Chandler

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What is Dual Enrollment

- ✓Getting an early start on your college education
- ✓When students take dual enrollment classes, students will be earning high school and college credits at the same time.
- ✓The courses are taught on the high school campus by college-approved high school teachers
- ✓An opportunity for students to earn lower-division college credits

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Dual, AP, Concurrent

Dual Enrollment

Dual enrollment students earn a college grade and credit while attending their high school classes. The grade the student earns for the high school course is the grade that will show on their college transcript.

AP (Advanced Placement)

Students in AP classes can receive college credit based on the score they earn on the AP exam. Colleges can vary on what score is necessary for them to accept the exam for credit.

Concurrent Enrollment

Concurrent enrollment students take classes at the community college in addition to their high school classes.

Dual Credits

- Allows students to complete credits that apply toward their general education requirements letting students focus on courses within their major area of study when they enroll at a university or community college.
- Opportunity to earn a four-year degree earlier depending on how many DE credits earned in high school.

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Other Opportunities

- **ACE Program** – Early college two-year scholarship preparation program designed to help first-generation, underrepresented, financially disadvantaged college-bound students succeed. Through the program, you can earn up to 24 college credits during your junior and senior years of high school.
- **Hoop of Learning** - Early high school to college bridge program designed to empower American Indian students to complete high school and transition successfully to higher education.
- **Concurrent** - You can take college courses with other college students in person, online, or in hybrid formats. You'll get credit you can apply toward a 2-year and 4-year college degree, and you'll get a good feel for what college life is like after high school graduation.

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AGEC

- **AGEC-A**, (35 crd) designed to satisfy requirements in many liberal arts majors

- **AGEC-AB (ABUS),** (35 crd) designed to satisfy requirements in business majors

- **AGEC-S,** (36-38 crd) designed to satisfy requirements in majors with more prescriptive mathematics and mathematics-based science requirements

AAS Courses

Chandler-Gilbert Community College *Associate in Applied Science in Cybersecurity, Certificate of Completion in Cybersecurity Fundamentals, Certificate of Completion in Cyber Operations*			
Course	Course Title	Credits	Grade
ITS240	Ethical Hacking & Network Defense	3	
CIS290AC OR CIS298AC	Computer Information Systems Internship OR Special Projects	3	
ITS291	Computer Forensics Foundations	4	
ITS292	Advanced Computer Forensics	4	
ENG101	First Year Composition	3	
ENG102	First Year Composition	3	
*CRE101 *or test exempt*	College Critical & Evaluative Reading *or Exemption by Assessment* *If exempt, must substitute with Literacy [L] course*	3	
MAT141/142	College Mathematics	3-4	
Oral Com +SB	COM 100, or 110, or 230 (COM 100, 110, or 230 will count as SB course for UA credit)	3	
HU	Any approved Humanities, Arts, & Design course	3	
SB	Any approved Social-Behavioral Sciences course	3	
SQ/SG	Any approved Natural Science course	4	
Additional BAS Requirements			
Course	Course Title	Credits	Grade
HU	Any approved Humanities, Arts, & Design course	3	
LANG	Second Language Proficiency (second semester level proficiency)	0-8	

50+ Credits!!!

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Degrees and Certificates

Degrees/Certificates awarded while at CGC:

- AAS – Cybersecurity (Specialization Pathways Exist for all Specializations below)
    - Cyber Operations
    - Linux Systems Administration
    - Microsoft System Administration
    - Cisco Network Administration and Security
    - Cyber Engineering
- CCL - Cybersecurity Fundamentals
- CCL - Cyber Operations

Possible Industry Certifications at CGCC (Based on testing):

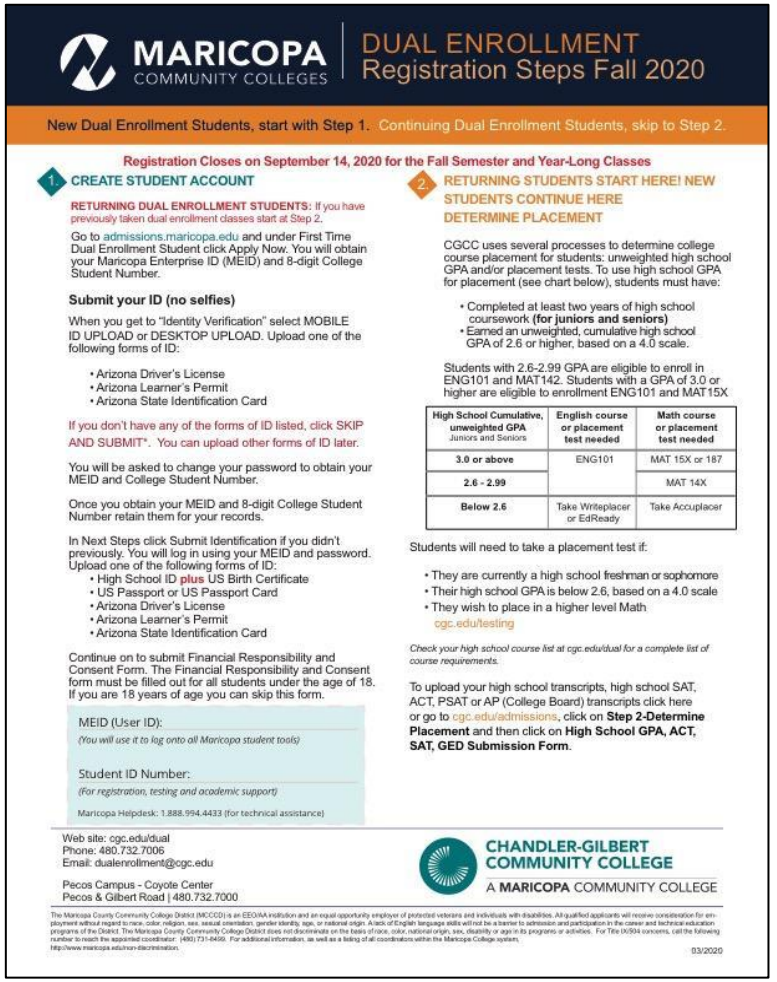
- EC-Council Certified Ethical Hacker (CEH)
- EC-Council Computer Hacking Forensics Investigator (CHFI)

Applying for DE

1. Application is FREE and available online

   Admissions.Maricopa.edu

2. Placement testing may be required- FREE



MARICOPA COMMUNITY COLLEGES | DUAL ENROLLMENT Registration Steps Fall 2020

New Dual Enrollment Students, start with Step 1. Continuing Dual Enrollment Students, skip to Step 2.

Registration Closes on September 14, 2020 for the Fall Semester and Year-Long Classes

1. CREATE STUDENT ACCOUNT

RETURNING DUAL ENROLLMENT STUDENTS: If you have previously taken dual enrollment classes start at Step 2.

Go to admissions.maricopa.edu and under First Time Dual Enrollment Student click Apply Now. You will obtain your Maricopa Enterprise ID (MEID) and 8-digit College Student Number.

Submit your ID (no selfies)

When you get to "Identity Verification" select MOBILE ID UPLOAD or DESKTOP UPLOAD. Upload one of the following forms of ID:

- Arizona Driver's License
- Arizona Learner's Permit
- Arizona State Identification Card

If you don't have any of the forms of ID listed, click SKIP AND SUBMIT*. You can upload other forms of ID later.

You will be asked to change your password to obtain your MEID and College Student Number.

Once you obtain your MEID and 8-digit College Student Number retain them for your records.

In Next Steps click Submit Identification if you didn't previously. You will log in using your MEID and password. Upload one of the following forms of ID:

- High School ID **plus** US Birth Certificate
- US Passport or US Passport Card
- Arizona Driver's License
- Arizona Learner's Permit
- Arizona State Identification Card

Continue on to submit Financial Responsibility and Consent Form. The Financial Responsibility and Consent form must be filled out for all students under the age of 18. If you are 18 years of age you can skip this form.

MEID (User ID):
(You will use it to log onto all Maricopa student tools)

Student ID Number:
(For registration, testing and academic support)

Maricopa Helpdesk: 1.888.994.4433 (for technical assistance)

2. RETURNING STUDENTS START HERE! NEW STUDENTS CONTINUE HERE

DETERMINE PLACEMENT

CGCC uses several processes to determine college course placement for students: unweighted high school GPA and/or placement tests. To use high school GPA for placement (see chart below), students must have:

- Completed at least two years of high school coursework **(for juniors and seniors)**
- Earned an unweighted, cumulative high school GPA of 2.6 or higher, based on a 4.0 scale.

Students with 2.6-2.99 GPA are eligible to enroll in ENG101 and MAT142. Students with a GPA of 3.0 or higher are eligible to enrollment ENG101 and MAT15X

High School Cumulative, unweighted GPA Juniors and Seniors	English course or placement test needed	Math course or placement test needed
3.0 or above	ENG101	MAT 15X or 187
2.6 - 2.99		MAT 14X
Below 2.6	Take Writeplacer or EdReady	Take Accuplacer

Students will need to take a placement test if:

- They are currently a high school freshman or sophomore
- Their high school GPA is below 2.6, based on a 4.0 scale
- They wish to place in a higher level Math

cgc.edu/testing

Check your high school course list at cgc.edu/dual for a complete list of course requirements.

To upload your high school transcripts, high school SAT, ACT, PSAT or AP (College Board) transcripts click here or go to cgc.edu/admissions, click on **Step 2-Determine Placement** and then click on **High School GPA, ACT, SAT, GED Submission Form**.

Web site: cgc.edu/dual
Phone: 480.732.7006
Email: dualenrollment@cgc.edu

Pecos Campus - Coyote Center
Pecos & Gilbert Road | 480.732.7000

CHANDLER-GILBERT COMMUNITY COLLEGE
A MARICOPA COMMUNITY COLLEGE

The Maricopa County Community College District (MCCCD) is an EEO/AA institution and an equal opportunity employer of protected veterans and individuals with disabilities. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, age, or national origin. A lack of English language skills will not be a barrier to admission and participation in the career and technical education programs of the District. The Maricopa County Community College District does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities. For Title IX/504 concerns, call the following number to reach the appointed coordinator: (480) 731-8499. For additional information, as well as a listing of all coordinators within the Maricopa College system, http://www.maricopa.edu/non-discrimination.

03/2020

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Placement

Freshman (9th) and Sophomore (10th) students:

- **College Reading Placement** is required for admissions or
- Depending on the class a student will be registering for, It may require a different placement to meet class eligibility

Juniors (11th) and Seniors (12th) students.

- **Earned a 2.6+ (unweighted) GPA**
  - **If GPA is under a 2.6 students** will be required to complete either ***College Reading Placement*** for admissions or
  - Depending on the class a student will be registering for, It may require additional placement to meet class eligibility

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Application Overview

1. Apply
2. Upload ID Authentication

    School ID and Birth Certificate Or

    Drivers License, Passport, or State ID
3. Upload high school transcript for Juniors/Seniors and/or take placement test
4. Register for the class
5. Pay tuition

Payment Options

- **Maricopa Grant** - Awarded up to 12 credits annually
  - 8 Credits Fall / 4 Credits Spring
  - Application deadline is August 31, 2021
- **Payment Plan –** Break Fall and Spring tuition into smaller, monthly payments.
- **Out-of-Pocket**

How I Help You!

- **Applying**
  Walk through the steps of completing the DE/College Application
- **Credit Check**
  Meet with me at the end of semester
- **One-On-One advising**
  Questions about career path or course selection for CGCC
- **FAFSA/Scholarship Information**
  Applying for FAFSA, Scholarships, or Honors Program
- **New Student Orientation/ Academic Advising**
  During senior year, get ahead of the traffic and meet with me to complete NSO and Advising.

SCAN ME

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Timeline

Freshman

AUG-SEP
Apply for Dual Enrollment/Concurrent Admission

NOV-DEC
Meet with CGCC REP to plan next year courses

Sophomore

AUG-SEP
Apply/Return for Dual Enrollment/Concurrent Admission

OCT-NOV
Other opportunities – ACE/Hoop

NOV-DEC
Meet with me to plan next year courses

Junior

AUG-SEP
Apply/Return for Dual Enrollment/Concurrent Admission

OCT-NOV
Other opportunities – Concurrent/Hoop

NOV-DEC
Meet with me to plan next year courses

Senior

AUG-SEP
Apply/Return for Dual/Concurrent

OCT-NOV
FAFSA Application/Workshops

FEB-JULY
Honors Scholarship Application

APR
New Student Orientation & Academic Advisement

Presidents Honors Scholarship

- Students submitting the President's Honors Scholarship application must be able to show legal presence in the United States
- Must be residents of Maricopa County while on scholarship,
- **Must have final, <u>unweighted</u> high school GPA of 3.25 or higher**.

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What to expect at CGCC

1st Semester

- **Cohort Welcome Event – August/Early September**
- **Academic Advisement for 2nd semester (IF REQUIRED) – October/November**
- **FOI Events**
- **UAZ Communication/Application push begins**

2nd Semester

- **UAZ Open House event**
- **UAZ Communication continues**
- **UAZ enrollment push**

Thanks for Attending

BASHA HIGH SCHOOL

CHANDLER-GILBERT COMMUNITY COLLEGE
A MARICOPA COMMUNITY COLLEGE

THE UNIVERSITY OF ARIZONA
Chandler

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PARTNERSHIPS

The University of Arizona - Chandler

10 August 2021

Kim Hanes

Maricopa Regional Manager
University of Arizona

- kimberlyhanes@arizona.edu

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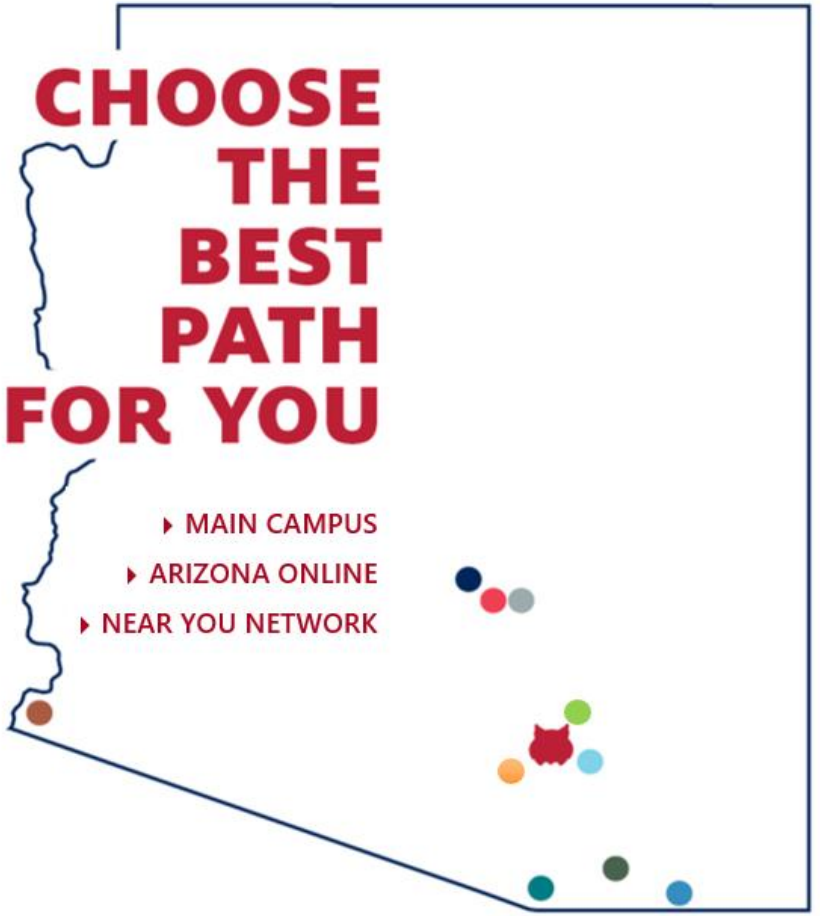
NEAR YOU NETWORK & STATEWIDE CAMPUSES

- Educational opportunities throughout the state, providing in-person support for **hybrid programs**.
- **Transfer degree** pathways, industry **certificates**, or **graduate degrees** designed to meet workforce needs of local communities.



GREATER PHOENIX
Chandler
North Valley
Gilbert

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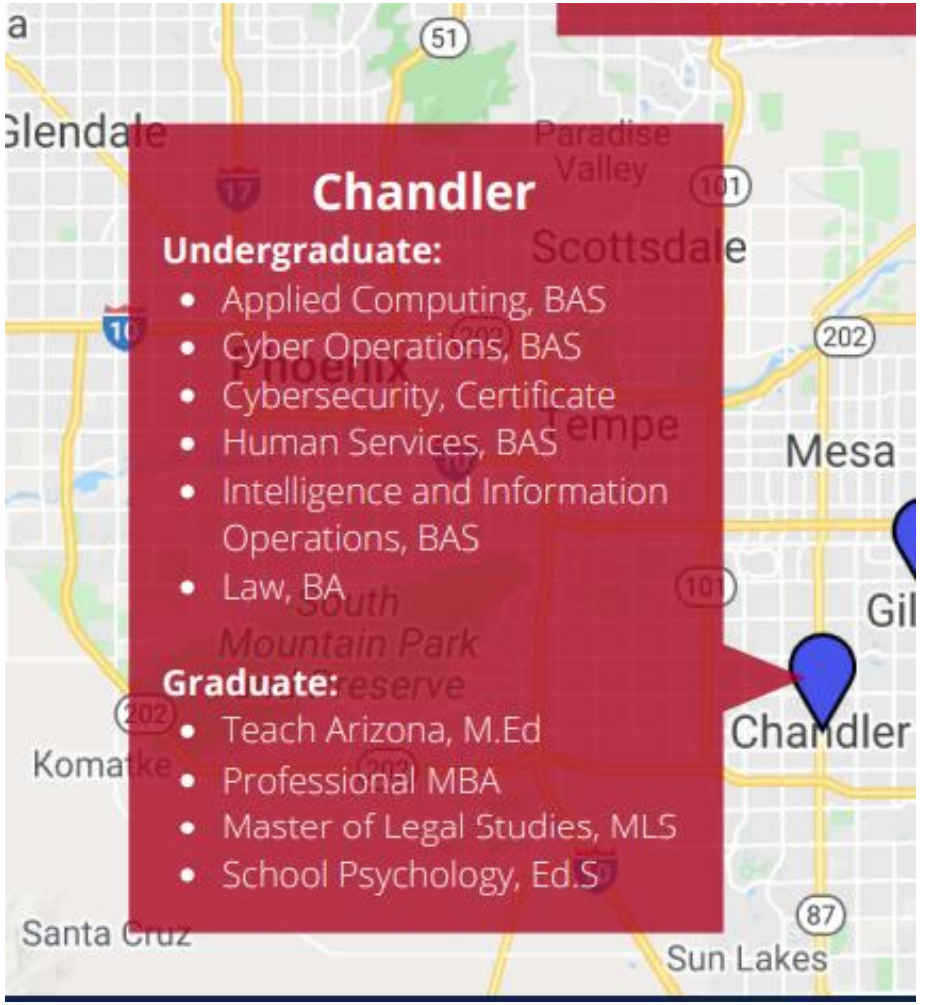
Location



CERTIFICATES:

Cloud Computing, Cybersecurity, Digital Forensics, Information Warfare, Organizational Leadership, Penetration Testing, Security Computing

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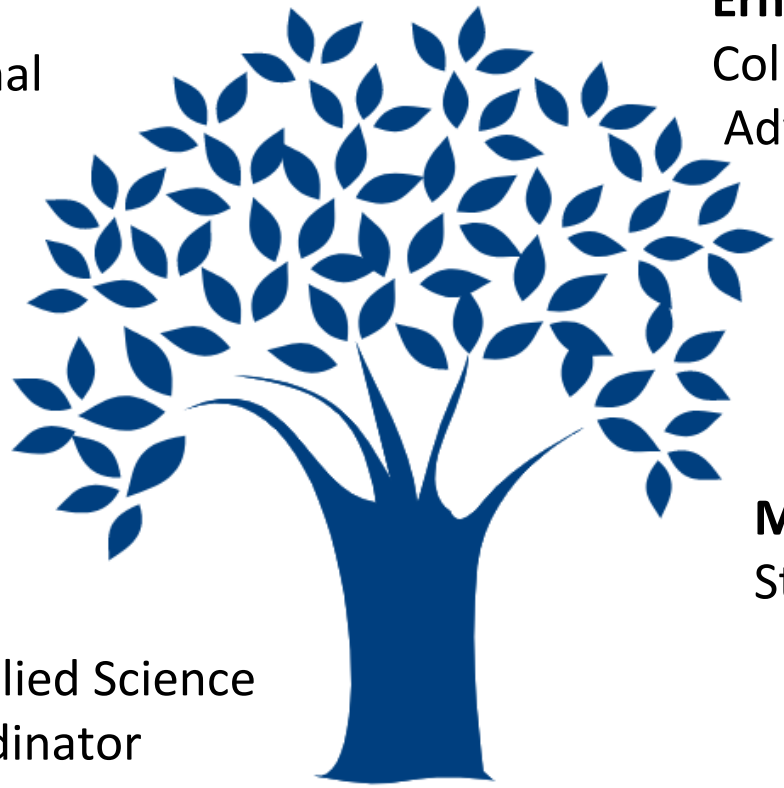
Regional Team

Kim Hanes
Maricopa Regional Manager

Ernest Shand
College of Applied Science Advisor

Chandler Coordinator
(Open Position)



Jackie Mattingly
IT Support

Mario De Leon
Student Worker

Julia Eischeid
College of Applied Science Transfer Coordinator

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Dean Gary Packard

College of Applied Science and Technology

- gapackard@arizona.edu
- (520) 626 – 2422
- www.azcast.arizona.edu

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CAST is the
College of the Future

Innovative approach to 21st Century Education

- Accessible
- Affordable
- Attainable

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CAST is

Future-Focused, Career-Ready

- Science-Driven majors, minors, and certificates
- Employees in high demand
- Cyber Defense and Forensics pathway

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CAST Cyber Operations Program

- **Center of Academic Excellence – Cyber Operations (CAE-CO)**
- **Intelligence Community Center of Excellence (IC CAE)**
- DoD Partnerships
- DoJ Partnerships
- Department of State University Champion
- Industrial & Commercial Partnerships

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Cyber Defense and Forensics

What is Defensive Forensics?

- Cyber Defense & Forensics provides a holistic foundation across the spectrum of Cybersecurity.
- Options to focus on specific concentration within the field
- Gain in-depth expertise by adding on an undergraduate certificate or come back for future training and education.

BAS Cyber Operations Degree

Defense & Forensics

PREREQUISITE COURSES
College Algebra
Networking Principles
Python Programming
Security Principles

BAS CORE COURSES
CYBV301 – Fundamentals of Cybersecurity
ENGV306 – Advanced Composition
BASV314 – Mathematics for Applied Sciences
CYBV326 – Network Analysis
CYBV329 – Cyber Law, Ethics & Policy
INFV320 – Computational Thinking & Doing

CYBER OPERATIONS SPECIFIC COURSES
CYBV385 - Introduction to Cyber Operations
CYBV388 – Cyber Investigations & Forensics
CYBV400 - Active Cyber Defense
CYBV435 - Cyber Threat Intelligence
CYBV436 – Counter Cyber Threat Intelligence
CYBV454 – Malware Threats & Analysis
CYBV473 – Violent Python
CYBV474 – Advanced Analytics for Security Professionals
NETV477 - Advanced Cyber Forensics
CYBV479 – Wireless Networking & Security
CYBV480 – Cyber Warfare
CYBV481 – Social Engineering Attacks
CYBV498 – Cyber Operations Senior Capstone

Conforms to the NSA Centers of Academic Excellence in Cyber Operations/Defense (CAE-CO/CD) requirements
Exceeds Office of Personnel Management's (OPM) 2210 job series (Information Technology Manager) requirements

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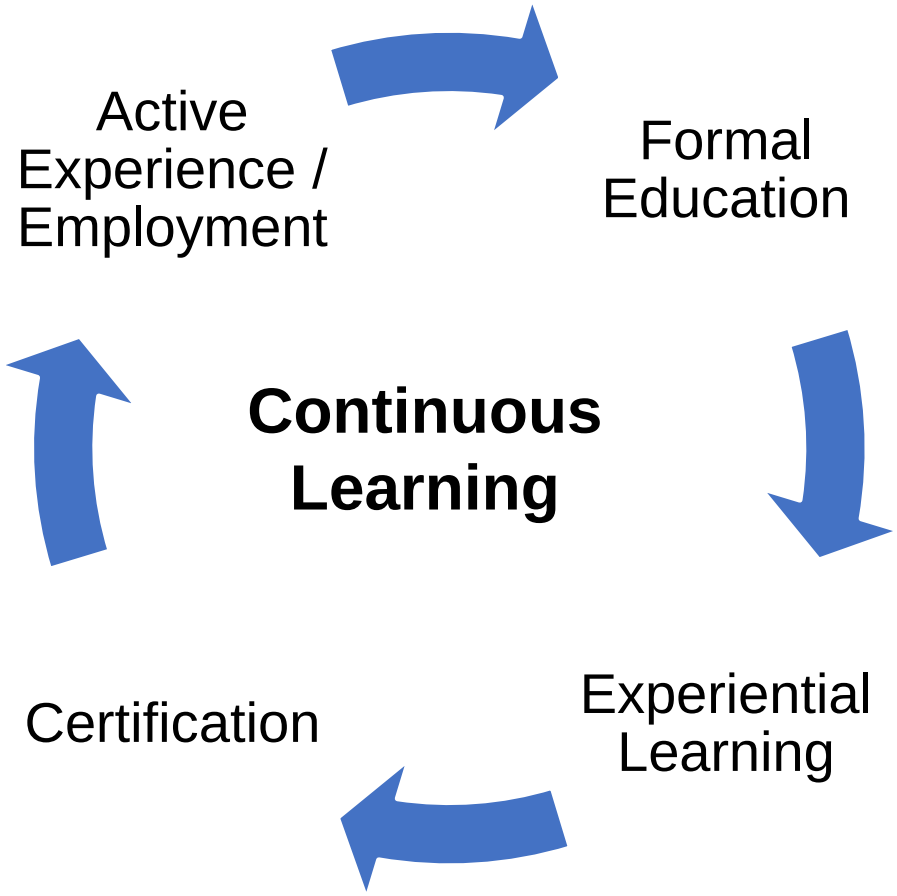
Hands-on Continuous Learning



Opportunities & Employment

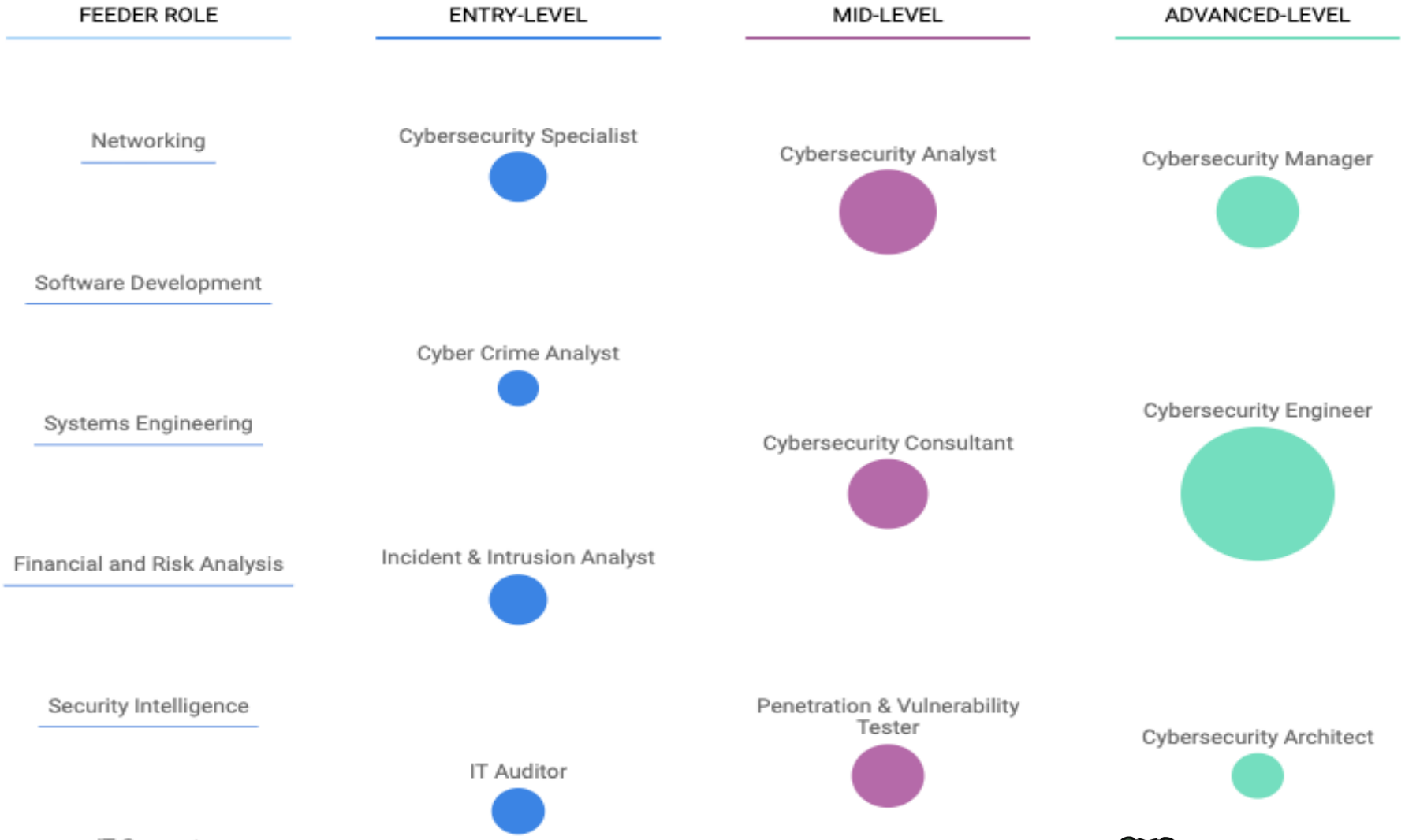
Opportunities

- Scholarships
- Internships
- Capstone
- Lab Spaces
- Cybercats

General Cybersecurity Roles

- Digital Forensics Expert
- Security Analyst
- Security Specialist
- Incident Response
- Penetration Tester
- Security Auditor
- Security Architect

cyberseek.org



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cyberseek.org

Incident & Intrusion Analyst

AVERAGE SALARY

$89,000

Incident & Intrusion Analyst

COMMON JOB TITLES

- Senior Analyst, Information Security
- Disaster Recovery Specialist
- Network Technical Specialist
- Audit Project Manager - Information Security

REQUESTED EDUCATION (%)

TOP SKILLS REQUESTED

1. Information Security
2. Project Management
3. Information Systems
4. Linux
5. Network Security
6. Technical Support
7. Intrusion detection
8. UNIX
9. Security Operations

TOTAL JOB OPENINGS

8,738

Incident & Intrusion Analyst

COMMON NICE CYBERSECURITY WORKFORCE FRAMEWORK CATEGORIES

- Protect and Defend
- Analyze

TOP CERTIFICATIONS REQUESTED

- GIAC Certified Incident Handler (GCIH)
- CompTIA Security+
- IT Infrastructure Library (ITIL) Certification

FUTURE SKILLS REQUESTED

Skills	5-Year Projected Growth
Threat Hunting	104.55%
Security Information and Event Management (SIEM)	64.33%
Anomaly Detection	57.69%
Security Insider Threat Management	56.40%
Counter Intelligence	26.14%

BASHA HIGH SCHOOL | CHANDLER-GILBERT COMMUNITY COLLEGE A MARICOPA COMMUNITY COLLEGE | THE UNIVERSITY OF ARIZONA Chandler

Admissions

The College of Applied Science and Technology programs are designed for students transferring from a regionally accredited institution.

- Minimum 2.5 GPA
- Associate of Applied Science degree from accredited institution
- Specific course prerequisites as defined by each program

Admissions

- Connect with an Enrollment Counselor
- Submit your application
- Submit official transcripts

Financial Planning

TUITION COSTS

Find out your projected tuition & fees.

Learn more

FINANCIAL AID

Learn what types of aid are available, who is eligible, and how to apply along with important dates, deadlines, and updates.

Learn more

SCHOLARSHIPS

Scholarships are often called "gift aid" because they are free money— financial aid that does not have to be repaid.

Learn more

TRANSFER AWARD CALCULATOR

This Net Price Calculator is designed to help incoming, domestic transfer students estimate scholarship eligibility, costs, and other aid options at the University of Arizona.

Learn more

SCHOLARSHIP UNIVERSE

University of Arizona's scholarship matching system is accessible to all current or officially admitted students.

Learn more

CYBER SCHOLARSHIP

The DoD is seeking rising third and fourth year undergraduate and graduate / doctoral students who are interested in fullride scholarships for studies in cybersecurity and other cyber-related disciplines.

Learn more

INTELLIGENCE & INFORMATION OPERATIONS STUDY ABROAD SCHOLARSHIP

Learn more

STUDENT SERVICES FEE

The Student Services Fee funds projects that enhance the student experience and positively impact student life.

Learn More

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Resources:

- CAST website: https://azcast.arizona.edu/
- Cyber Operations: https://cyber-operations.azcast.arizona.edu/
- Admissions: https://azcast.arizona.edu/student-services/admissions
- Financial Planning: https://azcast.arizona.edu/student-services/financial-planning

PARTNERSHIPS

Advanced Business Learning

10 August 2021

CHANGE YOUR SKILLS...CHANGE YOUR FUTURE

Presented by:
ABL Cyber Academy
www.ablcyberacademy.com
August 10, 2021
CJ David, Manager ABL Cyber Academy and Range
Susan Morris, SVP Co-Owner
Craig Cocciola, VP Academy and Range Operations

ABL Cyber Academy Quick Facts

22 years proven workforce education experience for the Fortune 1000 and Federal Government

7 years Arizona State Licensed Post Secondary Vocational School

Authorized Training Center (ATC) by industry standard leaders in IT and cyber certifications including CompTIA and EC Council

All ABL courses on Education Training Provider List (ETPL) – Eligible to take Arizona@Work Grants

Vetted and selected by North American Cyber Range Alliance as provider of Beginner/Intermediate Range to NACRA Participants (Supported by ACTRA – Arizona Cyber Threat Alliance)

What is the “size” of the career opportunities

- AZ has 7,000 positions ready to be filled
- Over 3.5m open jobs ready to be filled worldwide
- Many Employers don’t require a college
- Grants available for those eligible

TOGETHER HELPING TO FILL THE 7,000 IT/CYBER SECURITY JOB OPENINGS IN ARIZONA!

- The program certifications get the interview. Our ABL Cyber Practice Range hands on skills get our students the job- range is Included with every course at no extra cost.
- Get to practice the essential skills employers use as hiring criteria.
- There ***is*** a career path in IT/Cyber Security with a high school diploma.
- ABL is the place offering IT/Cyber career path certifications and job role experience. In Tempe and Maryvale...and virtual and hybrid
- Mentor tutors ready to assist student challenges.
  Resume-worthy references from ABL Range and Lab Staff.
- *Employers consider certifications coupled with many hours on the Cyber Practice Range an equivalent to 6 to 12 months, or more of work experience.*

Finally, the challenge of "you can't get a job without experience, and you can't get the experience without a job", has actually been solved!

ABL Offerings

Certifications

- Google IT Support and IT Fundamentals
- A+
- Network+
- Security +
- Amazon Web Services Architect
- CySA+ - CompTIA Cyber Security Analyst
- CND - Certified Network Defender
- CASP – CompTIA Advanced Security Practitioner

Job roles

- Entry Level Help Desk
- Help Desk
- Computer Technician
- Network Engineer
- Cloud Analyst
- Threat Intelligence Analyst
- Security Engineer
- Technical Lead Analyst

ABL includes access to our Cyber Practice Range as part of our courses.
This experience gets our graduates hired!!!

What Else Do Employers Care About

Leadership Skills

Teamwork

Communication Skills

Problem-Solving Skills

Work Ethic

Flexibility/Adaptability

Interpersonal Skills

Success stories

Homeless Mom with special needs children:

- After 6 months training with ABL got a job with Apple.
- She now resides in Germany working in a high paying cyber job.

Woman with no IT experience working at Circle K:

- After 8 months training with ABL, hired by a large Phoenix IT/data management company building and setting up servers
- Then recruited by another IT company as a data analyst
- Now making $75,000 per year

This ***is*** possible for any student with the desire, commitment and propensity for computer science!!!

No Student Loans or degrees required

- ✓ No need to incur debt - Many students are eligible for a no-repayment grant
- ✓ Each student sets her/his study schedule with their Mentor
- ✓ Live certified mentoring and tutoring with both virtual learning and/or on site
- ✓ Each certification preparation course is 12-14 weeks requiring 15-20 hours of structured student study per week
- ✓ Mentor progress monitoring keeps youth moving and controls distractions

ABL's 9-Part Learning System

- ✓ Online courseware with structured weekly schedule
- ✓ Hard copy and eBook
- ✓ Mentor – 1-1 and group
- ✓ Saturday group sessions on selected topics – offered on-site and virtual
- ✓ Practice exams to increase first attempt pass rates – must achieve 95% to take final exam
- ✓ Study plans created to map to identified weaknesses
- ✓ Supplemental study tools
- ✓ ABL Cyber Range (Hands on experience that all Employers highly value) – 24/7 access
- ✓ First attempt certification exam voucher

We also offer comprehensive learning tracks to promote practical video-based learning with hands-on simulated labs, *directly applicable for high school students,* for a nominal annual subscription fee.

ABL Cyber Academy Courses and Careers

CERTIFICATION PROGRESSION…

BEGINNER
4 – 6 months

- Google IT Pro
- A+

INTERMEDIATE
6 to 24 months

- Network+
- Security+

ADVANCED
2+ years

- Certified Ethical Hacker
- Certified Network Defender

JOB PROGRESSION…ONGOING EDUCATION AND SKILLS UPGRADES

Help Desk
IT Bench Technical
Field IT Tech
$18-$22 per hour

→

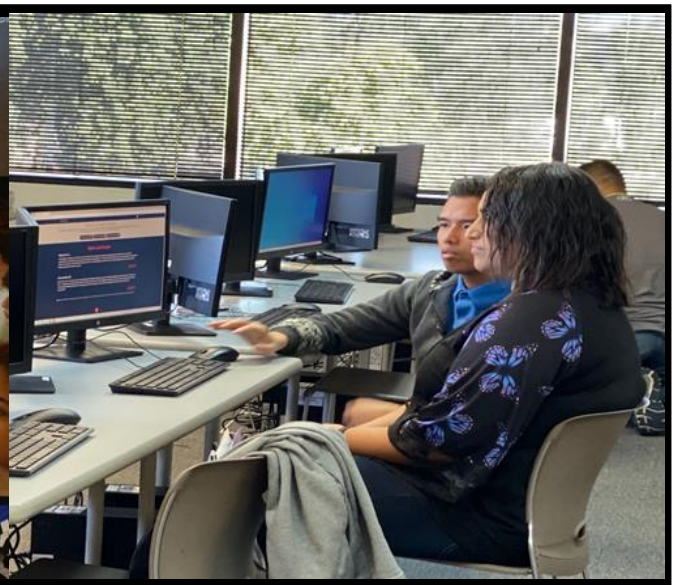
Network Systems Engineer
Network Security Analyst
2+ years
$50,000-$65,000 per year

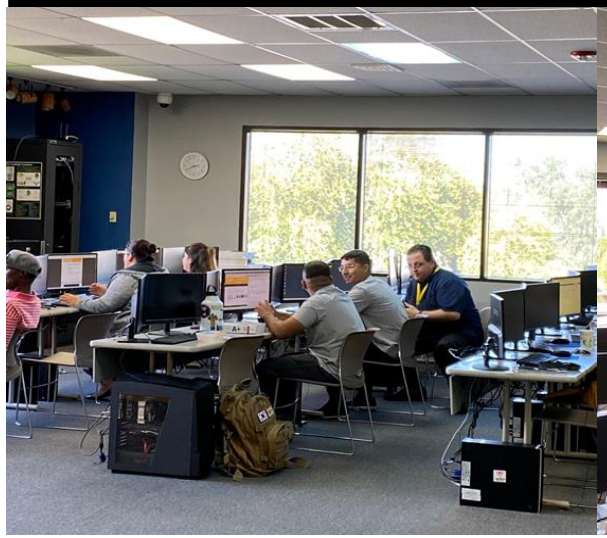
→

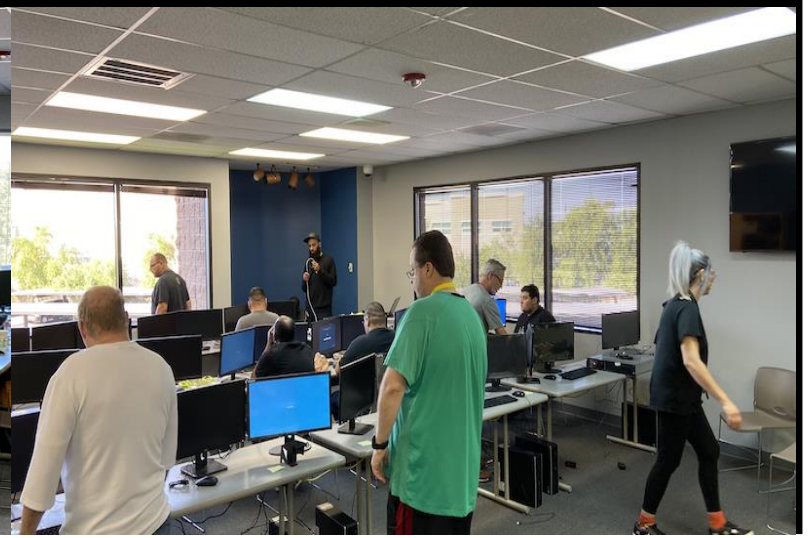
Cyber Network Analyst I
Information Security Professional
Long term career path
$65,000 to $75,000++++

GET JOB READY SKILLS
START YOUR PATHWAY TO IN-DEMAND JOBS

- Entering the IT/Cyber career *is possible right out of high school*
- NO experience necessary
- Build on your current Basha IT and Cyber courses
- Assessments at no cost – Find out if this is really for you
- Find out what your full potential can be







Next steps: Contact us

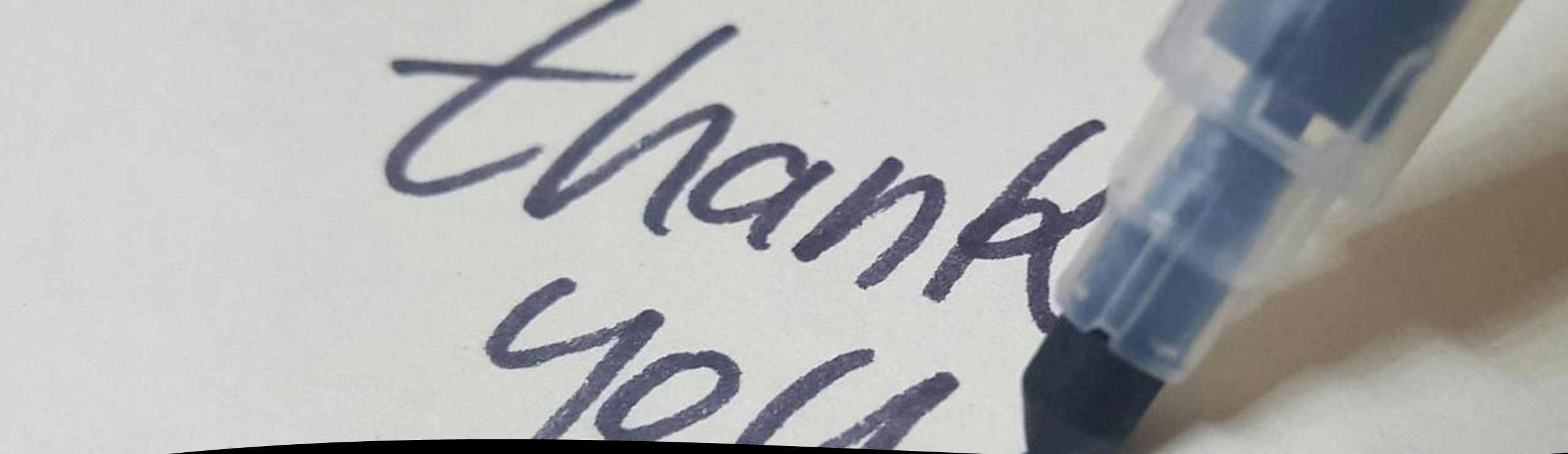
Take an in-depth tour

Have a conversation with us to better understand this opportunity

Complete a No Cost Assessment

Get an overview of:
ABL Cyber Academy
The Career Opportunities
The Grant Process

Craig
480 525 7195
craig@advancedbusinesslearning.com
Susan
480 227 5134
susan@advancedbusinesslearning.com



On behalf of:

- Chandler – Gilbert
- The University of Arizona – Chandler
- Advanced Business Learning

10 August 2021

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