



CUSD Cybersecurity Program

INSTITUTE OF CYBER OPERATIONS AND NETWORKING

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

Job Openings 	Job Growth 	Job Desires 
2023 - nearly 575, 000 job openings; 12, 537 in AZ (www.cyberseek.org)	Fastest-growing career areas nationally – 33% growth through 2030, over seven times faster than the national average job growth of 4%	Employers are looking for hands-on experience, soft skills (communication, time mgmt., teamwork and continual learners)

PATHWAY PARTNERSHIPS



Industry Certification
Employment



Bachelor of Applied Science



Associates Degree



CURRICULUM

YOUR STUDENTS' OPTIONS WITH ICON

HIGH SCHOOL ADVANTAGE

TAKING THESE COURSES AT THE HIGH SCHOOL ALLOWS STUDENT STAY AT HOME SCHOOL AND PARTICIPATE IN OTHER PROGRAMS AND ACTIVITIES OFFERED WITH FRIENDS

Entry Point

Students may enter the cyber program at any point while in high school. *Program* entry point is CIS 105, BPC 170 and BPC 270. (CYB 120 & CYB 230)

Other Programs

Students may still participate in athletics, drama, AFJROTC, band and other clubs.

CTE Advantages

Hands-on learning, leadership and career development, industry advisory, competitions (CTSO)

Hands-On



Chandler Innovation Fair

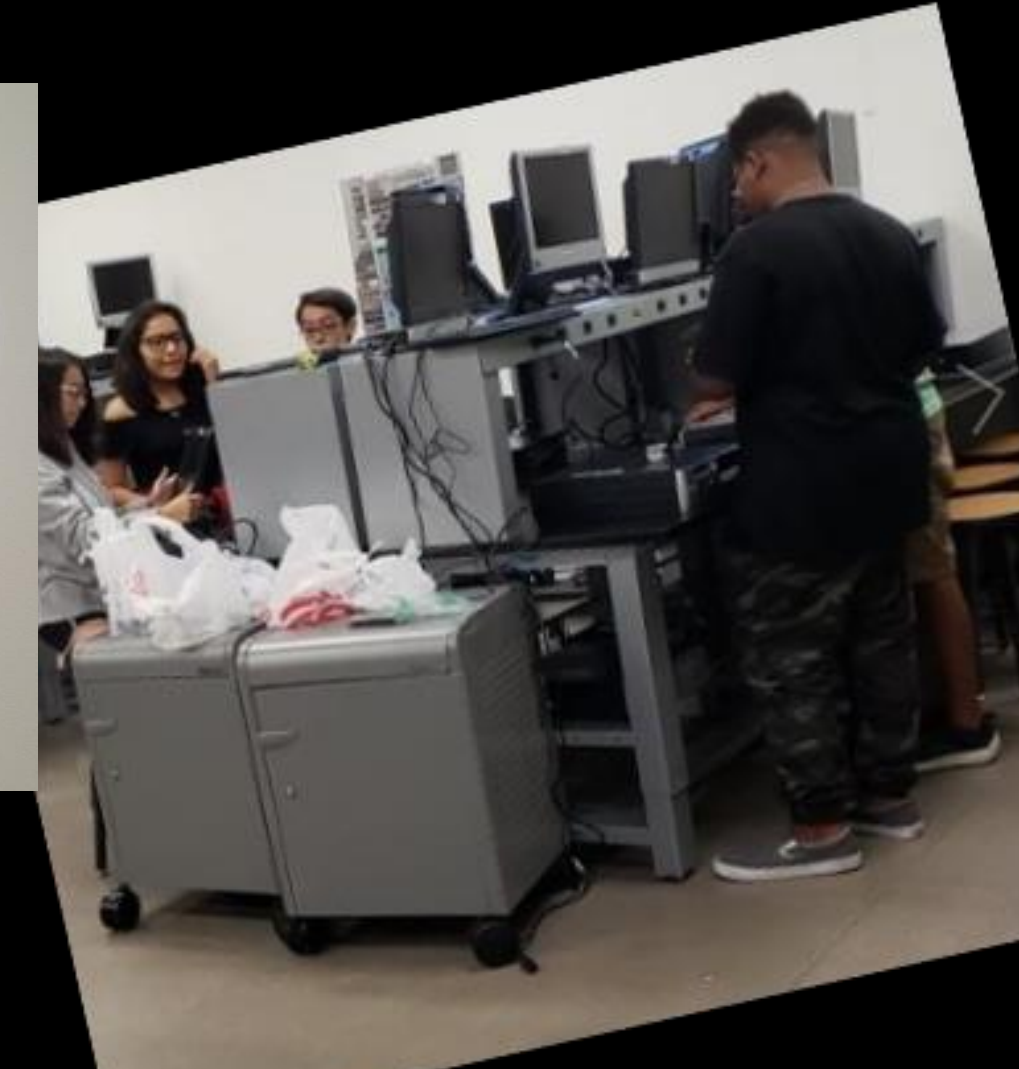


LABS

NATIONAL CYBER SIGNING DAY 2022



Certifications





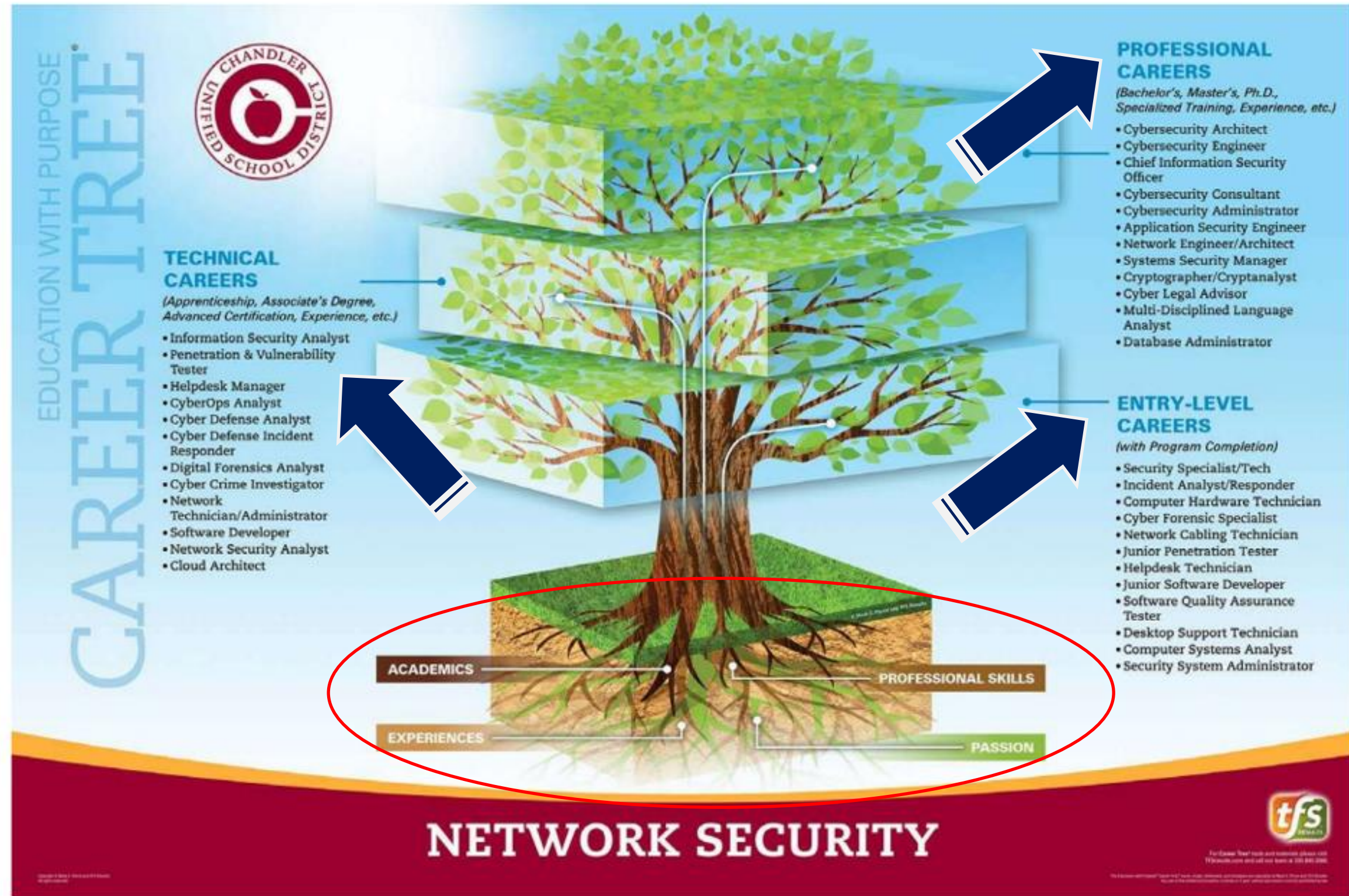
Information Security Analyst:
Median Wage \$92,700 Active Job Ads 407

Computer and Information Systems Manager:
Median Wage \$109,400 Active Job Ads 7002

PREPARING FOR CAREERS

PASSION **ACADEMICS**
EXPERIENCES **PROFESSIONAL SKILLS**
NETWORK SECURITIES

Within a single program, students can choose **many career** options.



Computer Systems Analysts:
Median Wage \$73,800 Active Job Ads 13



PARTNERSHIPS

CHANDLER GILBERT COMMUNITY COLLEGE



Make cyber security happen at Chandler- Gilbert



CHANDLER-GILBERT
COMMUNITY COLLEGE
A MARICOPA COMMUNITY COLLEGE



CHANDLER-GILBERT
COMMUNITY COLLEGE
A MARICOPA COMMUNITY COLLEGE

What is Dual Enrollment and how is it Different from Concurrent Enrollment?

Dual Enrollment

The credits students earn through Dual Enrollment are treated the same as regular college credit (i.e. they can be transferred to other Maricopa Community Colleges, Arizona's state universities, and even some out-of-state colleges).

Concurrent Enrollment

The college credits student's earn through Concurrent Enrollment are taught at the college or online and are not affiliated with the high schools

What is the difference?

Dual Enrollment classes meet at the high school during the regular high school day and are taught by college-certified high school instructors. Concurrent Enrollment classes are taught online or at the college and are not affiliated with the high school.

Program Benefits

The Associate in Applied Science (AAS) in Cybersecurity & Certificate of Completion (CCL) in Cybersecurity Fundamentals

- Students will leverage dual enrollment and transfer program benefits to earn an Associate's of Applied Science in Cybersecurity, Specialization I: Cyber Operations and Certificate of Completion in Cybersecurity Fundamentals
- 75 credits completed under the benefit of CGCC tuition cost
- Dual Enrollment Tuition Assistance, based on financial need
- Dual Enrollment, Online or Concurrent Enrollment course offerings
- All cyber core courses (ITS) incorporate Industry Certifications as a final



Determine Placement

Students must meet the [college prerequisites](#) for their courses, which are listed on the class list, and provide proof or documentation, or you will not be able to add classes.

Our colleges utilize multiple options to determine course placement. Students will be able to submit the following:

Freshman and Sophomores:

- Critical Reading and Thinking EdReady Placement Test

Juniors and Seniors

- 2.6 or higher Cumulative Unweighted GPA
- OR AzMerit ELA Proficient
- OR 720 or higher on PSAT
- OR 720 or higher on SAT
- OR 12 or higher on SAT
- OR Completion of the EdReady Critical Reading and Thinking Placement

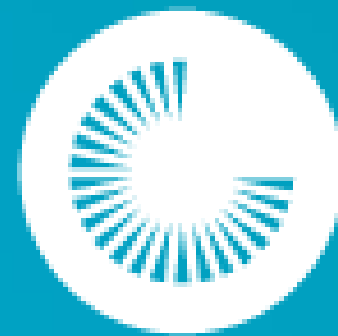


Basha High School CGCC Embedded Advisor

I am able to help with...

- Navigating the college admissions process
- Answering any questions you may have regarding Early College Programs:
 - Dual Enrollment
 - Concurrent Enrollment
 - ACE Scholarship
 - Hoop of Learning
- Evaluating program options
- One-on-One advising on career and educational path for CGCC
- FAFSA and Scholarship information





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, visit <http://www.maricopa.edu/non-discrimination>.



CURRICULUM OVERVIEW

CHANDLER GILBERT COMMUNITY COLLEGE

CyberSecurity @ CGCC

Cyber Information Night Basha High School



CHANDLER-GILBERT
COMMUNITY COLLEGE
A MARICOPA COMMUNITY COLLEGE



Scott Miller, IT/ Cyber Faculty

Background

- 7th year with CGCC
- 21st year teaching IT/ Cyber
- Former Network Administrator/ Analyst
- Kansas City Chiefs Fan!

Professional Certifications

- CompTIA A+
- CompTIA Network +
- CompTIA Security +
- CompTIA Server+
- Cisco Certified Academy Instructor (CCAI)
- Cisco Certified Network Associate (CCNA)
- Certified Wireless Network Associate (CWNA)
- Microsoft Certified Professional (MCP)

Faculty In the Cyber Security Program

- Mizan Rahman - Lead Faculty mizan.rahman@cgc.edu
- Scott Miller scott.miller@cgc.edu
- Lana Short lane.short@cgc.edu
- Prema Rayappa prema.rayappa@cgc.edu
- Elliot Cherner elliott.cherner@cgc.edu
- Wade Huber wade.huber@cgc.edu
- Deidre Grafel deidre.grafel@cgc.edu
- Mark Homewood mark.homewood@cgc.edu



Cyber Security Program Support

Barbara Gonzalez, Business and Computing Studies chair

barbara.gonzalez@cgc.edu

BCS administrative support team: Julie Clark and Theresa Hawley

business.computing.studies@cgc.edu

Austin Joy, Academic Advisor for BCS

austin.joy@cgc.edu

Cyber Security Associate Degree

- Students will earn an Associate's of Applied Science in Cybersecurity, Specialization I: Cyber Operations and Certificate of Completion in Cybersecurity Fundamentals
- Cyber Security Associate Degree will require 61-74 credit to be completed.
<https://aztransmac2.asu.edu/cgi-bin/WebObjects/MCCCD.woa/wa/freeForm13?id=162312>
- 74 credits completed under the benefit of CGCC tuition cost which can be transfer to University Arizona Cyber program
- All cyber core courses (ITS) incorporate Industry Certifications as a final



Required Courses and Instructors

Required Course	Instructors
ITS240 – EC Council Ethical Hacking	Mizan
ITS110 – CompTIA Security+ Or CIS270/CIS271DB/CIS272DB	Mizan/Scott
CIS190/CNT140AB - Networking	Scott
CIS156- Python	Prema/Adjuncts
CIS105 – Computer Information System	Elliot/Deidre/Adjuncts
CIS126DL/CIS126RH- Linux	Mizan/Wade/Adjuncts
BPC270 CompTIA A+ / MST150++	Scott

Restricted Electives

Specialization I: Cyber Operations Courses	Instructors
CIS298DL Linux 2	Mizan/Adjuncts
CIS298AC/CIS290AC- Special Project/Internship	Mizan
ITS291 Forensics	Mizan
ITS292 Advance Forensics	Mizan
BCS170 CompTIA A+	Scott
Specialization II: Linux System Administration	
CIS298DL Linux 2	Mizan/Adjuncts
CIS239DL Linux Shell Scripting 3	Not offered
CIS240DL/RH Linux Network Administration	Not offered
CIS271DL Linux Security	Not offered
CIS275DL Linux Capstone 3	Not offered
Specialization III: Microsoft System Administration	
CIS121AH Microsoft PowerShell	L Watson (adjunct)
MST155DC Installation, Storage	Not offered
MST157DC Networking with Windows Server	Not offered
MST158DC Management with Windows Server	Not offered

Restricted Electives

Cisco Network Administration and Security	Instructors
CNT150AB Switching, Routing, and Wireless	Scott/C Schmidt (Adjunct)
CNT160AB Enterprise Networking, Security,	Schmidt
CNT202/205 Cisco Secure Firewall Appliance	Schmidt

Specialization V: Cyber Engineering	Instructors
CIS298DL Linux 2	Mizan/Adjuncts
CIS119DO Introduction to Oracle	Prema
CIS162++ Any C Programming	Prema
CIS250: Management of Information Systems	Mark Wood
CIS227 Assembler Language	Eliot

Specialization VI: Critical Infrastructure	
CIS143 Introduction to Critical Infrastructure	Not offered
CIS201 Introduction to Operational Technology	Not offered
CIS202 Introduction to Smart Grid Security	Not offered
CIS203 Principles of the Risk Management	Not offered
CNT150AB Switching, Routing, and Wireless	Scott/C Schmidt (Adjunct)

Cyber Security CCLs

Students have choice of completing three Certificate of Completions (CCLs) at CGCC:

- Cybersecurity Fundamentals – total credits to complete: 24-31
 - <https://aztransmac2.asu.edu/cgi-bin/WebObjects/MCCCD.woa/wa/freeForm11?id=162487>
- Cyber Operations – total credits to complete: 41-42
 - <https://aztransmac2.asu.edu/cgi-bin/WebObjects/MCCCD.woa/wa/freeForm11?id=162493>
- Cyber Engineering – total credits to complete: 42-46
 - <https://aztransmac2.asu.edu/cgi-bin/WebObjects/MCCCD.woa/wa/freeForm11?id=162485>



Pathway to Get Bachelors Degree



The University of Arizona

Students will be able to transfer up to 74 credit hours from CGCC associate degree program to the cyber security bachelor degree program at University of Arizona.

<https://online.arizona.edu/programs/undergraduate/online-bachelor-applied-science-cyber-operations-applied-science-bas>



CHANDLER-GILBERT
COMMUNITY COLLEGE

A MARICOPA COMMUNITY COLLEGE

Cybersecurity Program Partnership

Chandler-Gilbert Community College * The University of Arizona

Chandler-Gilbert Community College Associate in Applied Science (AAS) in Cybersecurity, Specialization I: Cyber Operations Certificate of Completion (CCL) in Cyber Operations		
Course	Course Title	Credits
*CIS105	Survey of Computer Information Systems	3
*BPC170	A+ Exam Prep: Computer Hardware Configuration & Support	3
*BPC270	A+ Exam Prep: Operating System Configuration & Support	3
*CIS126DL	Linux Operating System	3
*CNT140AB	Introduction to Networks	4
*CIS238DL	Linux System Administration	3
*ITS110	Information Security Fundamentals	3
*CIS156	Python Programming: Level I	3
*CIS111	Ethics in Information Technology	3
**ITS291	Computer Forensics Foundations	4
**ITS292	Advanced Computer Forensics	4
**ITS240	Ethical Hacking and Network Defense	3
**CIS290AC or CIS298AC	Computer Information Systems Internship (3) OR Special Projects (3)	3
*ENG101	First Year Composition	3
*ENG102	First Year Composition	3
**CRE101 or test exempt	College Critical & Evaluative Reading or Exemption by Assessment	0-3
***Mathematics	Any approved general education course in the Mathematics area (Dual Enrollment MAT151, MAT187, MAT220 or MAT221, or Online or concurrent MAT141 or MAT142)	3-5
**Oral Communication	COM100, 110, 225, or 230	3
*HU	Any approved Humanities, Arts, & Design course (Dual Enrollment ENH110)	3
**SB	Any approved Social-Behavioral Sciences course	3
*SQ/SG	Any approved Natural Science course (Dual Enrollment BIO105, BIO181 or PHY111)	4
**FYE101 or FYE103	Introduction to College, Career and Personal Success (1) OR Exploration of College, Career and Personal Success (3)	1-3

Additional AGEC-A Requirements		
Course	Course Title	Credits
*SQ/SG	Any approved Natural Science course in SQ area or SG if SQ previously completed	4
**HU	Any approved Humanities, Arts, & Design course	3
**SB	Any approved Social-Behavioral Science (COM100, 110, or 230 recommended)	3
**L	If CRE101 is tested Exempt, complete any approved general education course in Literacy and Critical Inquiry (COM225 recommended)	3
***H or G	Any approved Historical (H) Awareness or Global OR (G) Awareness course (Dual Enrollment SPA101, OR Online or concurrent with CGCC)	0-3
*C	Any approved Cultural (C) Awareness course (Dual Enrollment ENH110)	0-3

University of Arizona- Chandler Bachelor of Applied Science in Cyber Operations, Emphasis in Defense & Forensics		
Course	Course Title	Credits
APCV320	Computational Thinking & Doing	3
BASV314	Math for Applied Science	3
CYBV301	Fundamentals of Cybersecurity	3
CYBV326	Introductory Methods of Network Analysis	3
CYBV329	Cyber Ethics	3
CYBV385	Introduction to Cyber Operations	3
CYBV388	Cyber Investigations & Forensics	3
CYBV400	Active Cyber Defense	3
CYBV435	Cyber Threat Intelligence	3
CYBV473	Violent Python	3
CYBV480	Cyber Warfare	3

CYBV498	Cyber Operations Senior Capstone	3
CYBV	Elective (Suggestions: 436, 460, 477, or 481)	3-6
ENGV306	Advanced Composition	3
Foreign Language	*2 nd Semester Foreign Language Proficiency (Dual Enrollment SPA101 & SPA102)	0-8

- **/** Courses at CGCC

Sample Curriculum subject to change

Industry Certifications



BPC 170 / 270: CompTIA A+

CIS 190: CompTIA Network+

ITS110: CompTIA Security+



ITS291: Computer Hacking Forensic Investigator (CHFI)



ITS292: Certification for Extrro's Forensic Toolkits (FTK)



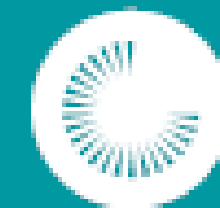
ITS240: Certified Ethical Hacker (CEH)

Career Opportunities

- Cybersecurity Analyst
- Security Analyst
- Cyber Threat Analyst
- Penetration Tester
- System Analyst
- Network Architect
- Computer Systems Information Manager



**Make
cyber
security
happen at
Chandler-
Gilbert**



**CHANDLER-GILBERT
COMMUNITY COLLEGE**

A MARICOPA COMMUNITY COLLEGE



PARTNERSHIPS

THE UNIVERSITY OF ARIZONA



THE UNIVERSITY
OF ARIZONA

>>> Cyber Pathway



College of Applied Science & Technology

**The college within the University of Arizona that will
award your diploma and provide your cyber operations
instruction.**

CAST is the College of the Future

Innovative approach to 21st Century Education

- Accessible
- Affordable
- Attainable

CAST is Future-Focused, Career-Ready

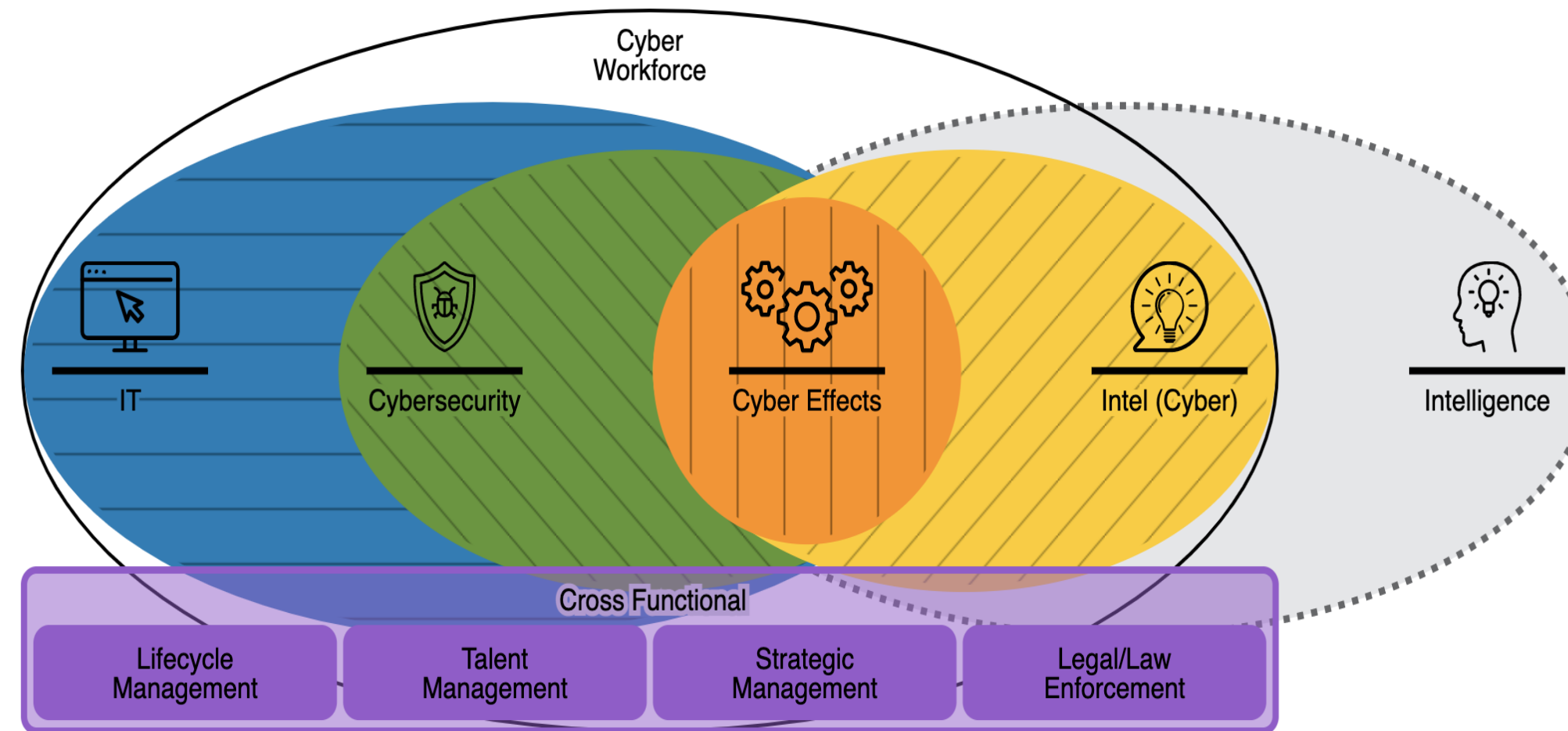
- Science-Driven majors, minors, and certificates
- Employees in high demand
- Cyber Defense and Forensics pathway

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



CIIO Department



Applied Computing

- Emphases in:
 - DevOps
 - Network Operations
 - Cloud Computing
 - Software Development
 - Information Management
 - Applied Artificial Intelligence

Cyber Operations

- Emphases in:
 - Cyber Engineering
 - Defense and Forensics
 - Law and Policy

Intelligence and Information Operations

- Emphases in:
 - Operational Intelligence
 - Information Warfare
 - Law Enforcement Intelligence



K-12 PATHWAYS

CURRICULUM FROM HIGH SCHOOL TO COLLEGE

HIGH SCHOOL TO UNIVERSITY CURRICULUM*

Course	Course Title
CIS105	Introduction to Computer Systems
BPC170	Hardware and Software Config and Support
BPC270	Hardware and Software Config and Support
CNT140	Intro to LAN & Security Fundamentals
CNT150	Intro to LAN & Security Fundamentals
CIS126DL	Linux OS
CIS238DL	Advanced Linux
CIS111	Ethics in Technology
CIS156	Python
CIS110	Information Security Fundamentals

*Basha High School shown here

UNIVERSITY YEAR 1

Course	Course Title
UNIV 101	Introduction to the General Education Experience
ENGL 101	First-Year Composition
LANG 101	Foreign Language
	-- General Elective
	-- General Elective
ENGL 102	First-Year Composition
MATH XX	Math Requirement
LANG 102	Foreign Language
	General Elective
	General Elective

1ST SEMESTER

2ND SEMESTER

UNIVERSITY YEAR 2

Course	Course Title
	-- Exploring Perspectives
	-- Humanist
	-- Building Connections
	-- Building connections
	-- General Elective
ENGL 306	Advanced Composition
	-- Natural Scientist
	-- Social Scientist
	-- Building Connections
	-- General Elective

1ST SEMESTER

2ND SEMESTER

UNIVERSITY YEAR 3

Course	Course Title
CYBV 301	Fundamentals of Cybersecurity
CYBV 329	Cyber Ethics
BASV 314	Mathematics for Applied Sciences
	-- Defense and Forensics Elective
	-- General Elective
UNIV 301	General Education Portfolio
CYBV 385	Intro to Cyber Operations
CYBV 326	Intro Methods of Network Analysis
	-- General Elective
	-- General Elective
	-- General Elective

1ST SEMESTER

2ND SEMESTER

UNIVERSITY YEAR 4

Course	Course Title
APCV 320	Computational Thinking and Doing
CYBV 400	Active Cyber Defense
CYBV 388	Cyber Investigations and Forensics
CYBV 480	Cyber Warfare
	-- General Elective
CYBV 498	Capstone
CYBV 435	Cyber Threat Intelligence
CYBV 472	Secure Software Development and Assessment
	-- General Elective
	-- General Elective

1ST SEMESTER

2ND SEMESTER

POSSIBLE CERTS

- CompTIA
- ITF
- A+
- Sec+
- PCEP



WORKFORCE PIPELINE

SKILLS AND DEVELOPMENT TRAINING

- Arizona Cyber Initiative Camp
- Cyber Patriot Summer Camps (Basic/Advanced)
- Competitions (Cyber Patriot, National Cyber League)
- Cyber Range

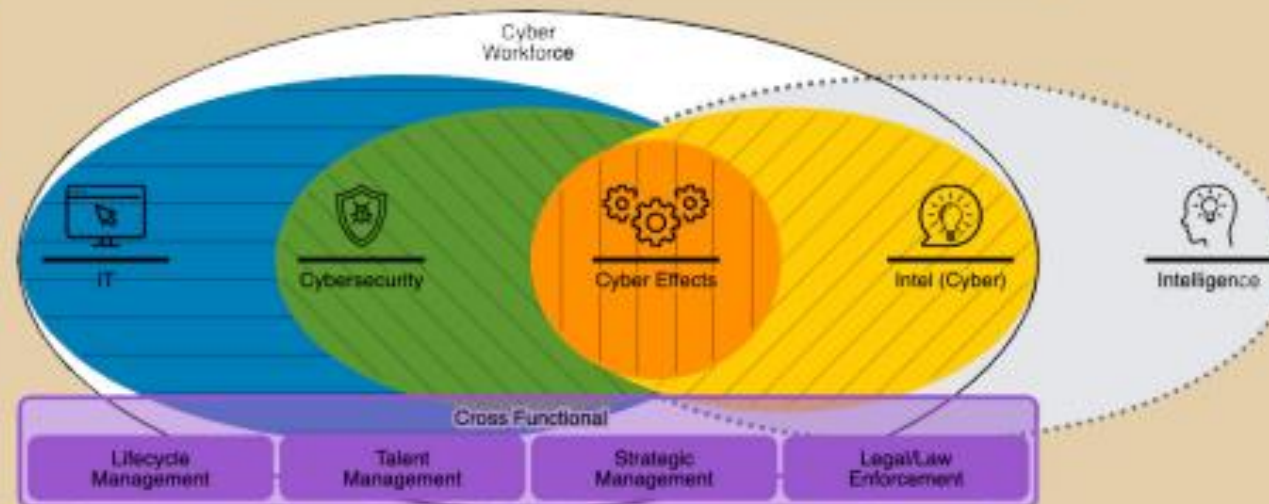
WORKFORCE DEVELOPMENT/ TRAINING

- Externship- AZ Cyber Talent
- Certifications- CompTIA, IT Fundamentals
- Career Exploration/ Readiness Workshops
- Student Mentorship/ Instructor Opportunities

CYBERSECURITY WORKFORCE PIPELINE

- Military
- Employment
- 2-Year Education (Community College)
- 4-Year Education (University)

CYBER CAREER PATHWAYS



Applied Computing

- DevOps
- Network Operations
- Cloud Computing
- Software Development
- Information Management
- Applied Artificial Intelligence

Cyber Operations

- Cyber Engineering
- Defense and Forensics
- Law and Policy

Intelligence and Information Operations

- Operational Intelligence
- Law Enforcement Intelligence
- Information Warfare

GRADUATE CURRICULUM

CAST

MASTER OF SCIENCE, CYBER & INFORMATION OPERATIONS

Course	Course Title
CORE	
CYBV501	Principles of Cybersecurity
CYBV523	Covert Python
CYBV529	Cyber Law, Ethics & Policy
CYBV579	Cloud Security
CYBV626	Traffic Analysis
CYBV660	Zero Trust Defensive Techniques
CYBV685	Information Warfare
CAPSTONE	
CYBV909/910	Master's Report or Thesis
ELECTIVES-2	
CYBV525	Cyber Physical Systems
CYBV528	Operational Tradecraft in the Information Environment
CYBV581	Privacy and Regulatory Requirements in Cybersecurity
CYBV630	Industrial Control System Security
CYBV680	Computational Propaganda
CYBV683	Strategic Cyber Management
CYBV696	Special Topics in Cyber & Intelligence Operations

Seamless Cyber Pathway



Start 100 and 200 level classes

Associate's degree- finish 100 and 200 level classes

Bachelor's degree- Complete degree with 300 and 400 level classes

Cyber Defense and Forensics

What is Defense & 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

BAS CORE COURSES

ENGV306 – Advanced Composition
BASV314 – Mathematics for Applied Sciences
(Statistics)
CYBV326 – Intro Methods of Network
Analysis
CYBV329 – Cyber Ethics
APCV 320 – Computational Thinking & Doing
CYBV498 – Cyber Operations Senior Capstone

CYBER OPERATIONS MAJOR COURSES

CYBV301 -Fundamentals of Cybersecurity
CYBV385 -Intro to Cyber Operations
CYBV388 – Cyber Investigations & Forensics
CYBV400 - Active Cyber Defense
CYBV 480 – Cyber Warfare
CYBV435 - Cyber Threat Intelligence
CYBV473 – Violent Python
CYBV 312 – Intro to Security Scripting

CYBER OPERATIONS ELECTIVE COURSES

CYBV474 – Advanced Analytics for Security
Professionals
CYBV 475- Cyber Deception Detection
CYBV479 – Wireless Networking & Security
CYBV 477 – Advanced Computer Forensics
CYBV 460 – Principles of Zero Trust Networks
CYBV481 – Social Engineering Attacks

Defense & Forensics

Cyber Sample Freshmen Plan

1 st Semester	Credits
UNIV 101	1
ENGL 101	3
LANG 101	4
General Elective	3
General Elective	3
Total	14

2 nd Semester	Credits
ENGL 102	3
MATH XXX	3
LANG 102	4
General Elective	3
General Elective	3
Total	16

3 rd Semester	Credits
Exploring Perspectives	3
Humanist	3
Building Connections	3
Building Connections	3
General Elective	3
Total	15

4 th Semester	Credits
ENGL 306	3
Natural Scientist	3
Social Scientist	3
Building Connections	3
General Elective	3
Total	15

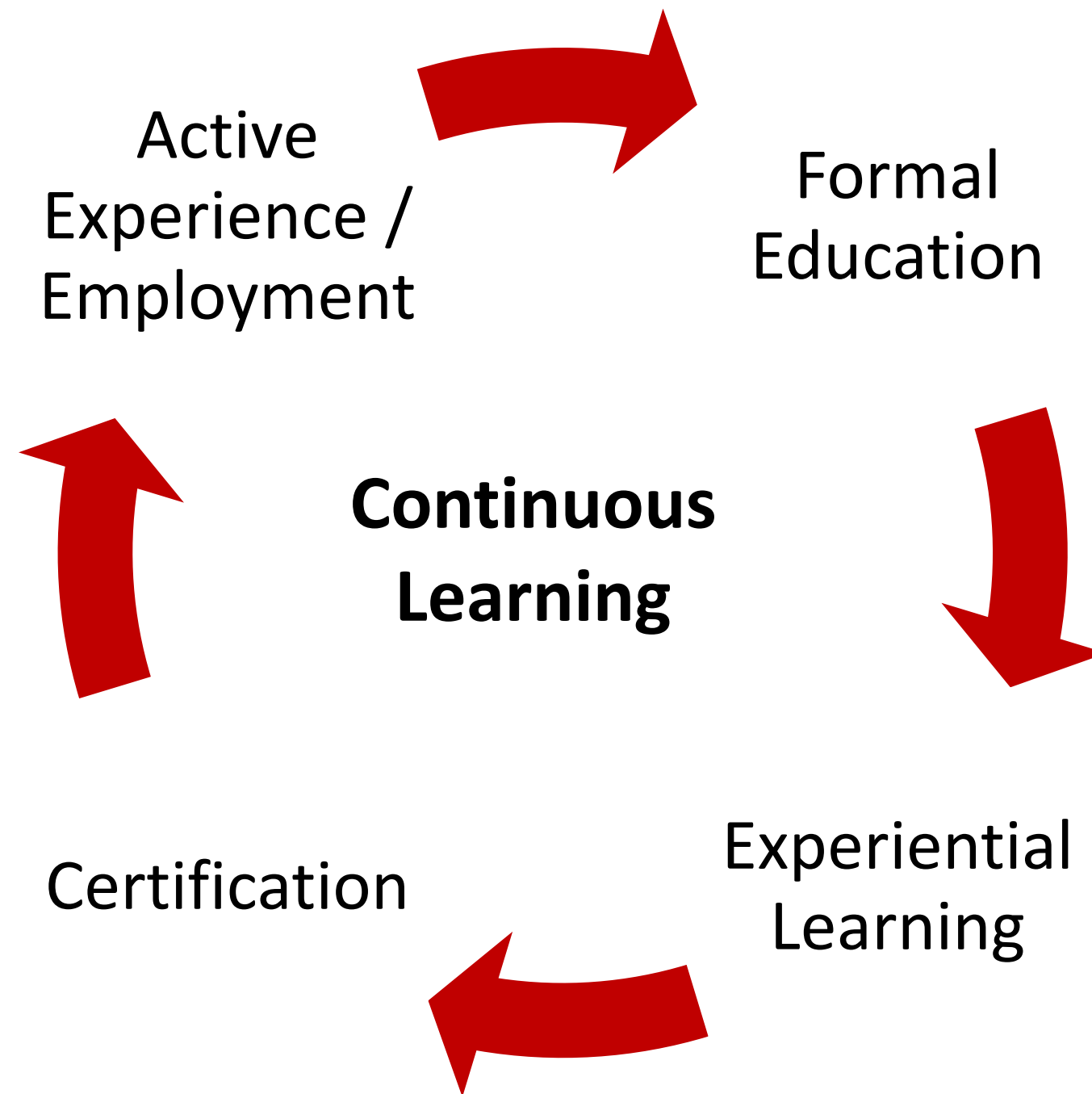
5 th Semester	Credits
CYBV 301	3
CYBV 329 (pre-req ENGL 306)	3
BASV 314	3
Def/Forensics Elective	3
General Elective	3
Total	15

6 th Semester	Credits
UNIV 301	1
CYBV 385 (pre-req CYBV 301)	3
CYBV 326 (pre-req CYBV 301)	3
General Elective	3
General Elective	3
General Elective	3
Total	16

7 th Semester	Credits
APCV 320	3
CYBV 400 (CYBV 326 pre-req)	3
CYBV 388 (CYBV 326 pre-req)	3
CYBV 480 (326 and 385)	3
General Elective	3
Total	15

8 th Semester	Credits
CYBV 498	3
CYBV 435	3
CYBV 472	3
General Elective	3
General Elective	3
Total	15

Hands-on Continuous Learning



Opportunities & Employment

Opportunities

- Scholarships
- Internships
- Capstone
- Lab Spaces
- Cyber Saguaros
- Research –
Saguaro Pod

General Cybersecurity Roles

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

cyberseek.org

FEEDER ROLE

Networking

Software Development

Systems Engineering

Financial and Risk Analysis

Security Intelligence

IT Support

ENTRY-LEVEL

Cybersecurity Specialist



Cyber Crime Analyst



Incident & Intrusion Analyst



IT Auditor



MID-LEVEL

Cybersecurity Analyst



Cybersecurity Consultant



Penetration & Vulnerability
Tester

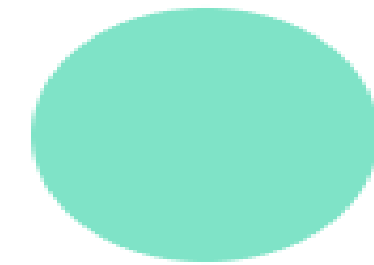


ADVANCED-LEVEL

Cybersecurity Manager



Cybersecurity Engineer



Cybersecurity Architect



cyberseek.org

Incident & Intrusion Analyst

AVERAGE SALARY ⓘ

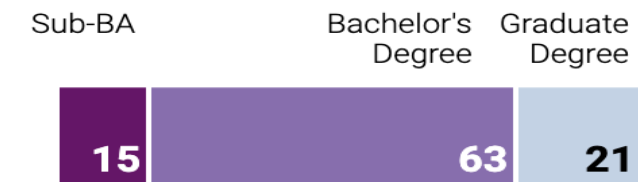
\$89,000



COMMON JOB TITLES ⓘ

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

REQUESTED EDUCATION (%) ⓘ

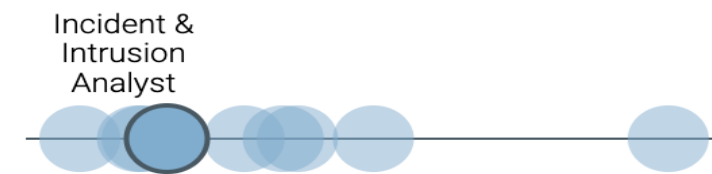


TOP SKILLS REQUESTED ⓘ

- 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



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%

Admissions

- First Year Freshmen
 - 3.0 GPA Assured Admission
 - Core Competencies
 - High School Transcripts
- Transfer
 - Minimum 2.0 GPA
 - Community College Transcripts
 - May have AGEC, Transfer Pathway, or Associate of Applied Science (AAS)
 - 75/45 AAS to BAS Block transfer option

Admissions

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

Marisa Saxton
CAST Manager,
Recruitment and
Enrollment

CASTRecruitment@arizona.edu

520-626-8518

Cali Krietemeyer
CAST Student
Enrollment Specialist

CASTRecruitment@arizona.edu

520-621-0449

Financial Planning



Tuition Costs

[Read more](#)



Financial Aid

[Read more](#)



Scholarships

[Read more](#)



Scholarship Universe

[Read more](#)



Student Services Fee

[Read more](#)

Resources

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

QR Code for more information

1



2

Get Started, Stay Connected!

REQUEST INFORMATION

3



College of Applied
Science & Technology

Click to write the question text

Name

Email Address

Potential area of interest

Basha High School

Cyber Transfer Pathway

CONTACT US!

CAST Academic Advisors: <https://azcast.arizona.edu/student-services/meet-your-advisors>

Contact for: *Transfer questions and inquiries about our Cyber and Applied Computing degrees*

CASTAdvising@arizona.edu



Paul Wagner – CAST Department Head

Contact for: *Questions and inquiries about our Cyber, IIO, and Applied Computing degrees, scholarships, and careers*

paulewagner@arizona.edu



PARTNERSHIPS

ADVANCED BUSINESS LEARNING



CHANGE YOUR SKILLS...CHANGE YOUR FUTURE

Presented by:

M. Craig Cocciola

ABL Cyber Academy

www.ablcyberacademy.com



About ABL Cyber Academy

Arizona State Licensed Post Secondary School

HELPING TO FILL THE 12,000 IT/CYBER SECURITY JOB OPENINGS IN ARIZONA!

Results:

90% certification exam pass rate

85% job placement rate

Employers who hire ABL graduates:

Raytheon

General Dynamics

Large Financial Institutions

ABL's Learning *System*

- Students are never on their own...support is available 6 days a week
- Online courseware
- Course hard copy and eBook
- Mentor – 1-1 relationship
- Mentor roles and responsibilities
 - Encourage and monitor the development and progress
 - Use the results of all course assessments and practice tests to direct focus on identified areas of weakness
 - Ensure preparation to pass the course certification exam
- Multiple course practice tests
- Colleague/Peer support and feedback – Be a learner *and a teacher* – skills highly valued by Employers
- Help with resumes and interviewing skills
- Employment references from ABL Leadership

Success Stories

- Homeless mom with special needs children – no college
 - After 6 months training with ABL got a job with Apple.
- Woman with no IT experience working at CircleK – no college
 - 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 \$85,000 per year.
- Close to “home” amazing success - Isiah Marable

GET JOB READY SKILLS

START YOUR PATHWAY TO IN-DEMAND JOBS

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

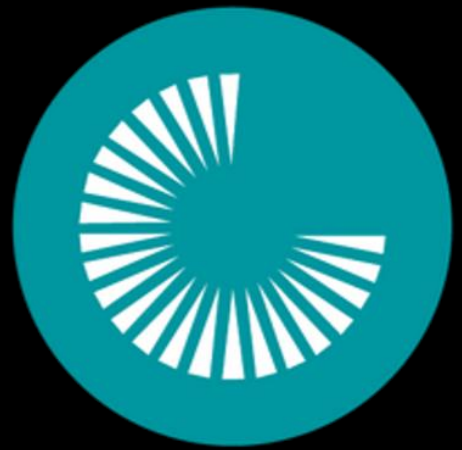
GETTING STARTED IS EASY

1. CONTACT SUSAN@ADVANCEDBUSINESSLEARNING.COM
480 227 5134
2. DETERMINE THE BEST COURSE SEQUENCE FOR *YOU*
3. STATE GRANTS COVER ABL TUITION (ELIGIBILITY REQUIRED)

Thank You!

On behalf of:

- Chandler - Gilbert Community College
- The University of Arizona
- Advanced Business Learning



Do you have any
questions?

Please stay and visit the schools' representatives -
we are here to help you plan.

