

2024 CAE Community Symposium

Georgia's Technical College System-Wide transfer agreement with Augusta University's School of Computer and Cyber Sciences: AAS-BS Cybersecurity Pathway



Michael Nowatkowski
Augusta University



Gursimran Walia
Augusta University



Jim Poarch
Augusta Technical College

2024 CAE

Who we are

- Augusta University School of Computer and Cyber Sciences
 - Gursimran Walia, Professor and Associate Dean of Academic Affairs
 - Michael Nowatkowski, Professor and Head of the Cyber Programs of Study
- Augusta Technical College
 - Jim Poarch, Department Head and Cybersecurity/Director
 - Tammy O'Brien, Dean of School of Cyber and Design Media

 **AugustaTech**



2024 Augusta Advantage & Strengthening Transfer Pathways locally

Augusta University:

- “nearly one in three new students enrolling as a transfer student each fall semester”
- Student profile is 63% female, 42% local students, 26% first-generation and 39% underrepresented minority
- BS-Cybersecurity program – 1/3rd of students are transfer students
- Augusta Technical College
 - Students profile is 62% female, 55% Black



AAS-BS Transfer

- 2022-2024: 41 AAS-BS transfer students from ATC to AU’s School of Computer and Cyber Sciences
- AU and ATC signed the “Augusta Advantage” agreement in 2023 guaranteed admissions to AU for ATC A.S. or AAS graduates
 - AU: <https://www.augusta.edu/campaign/augustaadvantage>
 - ATC: <https://www.augustatech.edu/augustaadvantage/augustaadvantage-overview.cms>

2024 CAE History of AU- ATC Transfer Agreements or Collaboration

- AAS- BS in Information Technology [2020]
- AAS-BS in Cybersecurity [2023]
- Revised AAS-BS in Cybersecurity in 2024 [the current articulation]
- Key Changes, updates and lessons learned through the process
 - AU's BS-IT program with "Cyber" concentrations evolved into BS-Cybersecurity degree;
 - TCSG standardized the cybersecurity curriculum across all 22 colleges
 - Mr. Poarch (ATC Chairperson) serves as the Cybersecurity Chairperson for the TCSG CIST IFCC (Instructional Faculty Consortium Committee).
 - 72 hours IS23 Cybersecurity Degree and 60 hours CY13 Cybersecurity Degree
 - CAE-CD designations (AU and ATC)
 - Challenge Exams and Repeated Courses

2024
**AAS-BS
 Cybersecurity
 Articulation
 Agreement**
 (Signed 2024
 by ATC and AU)

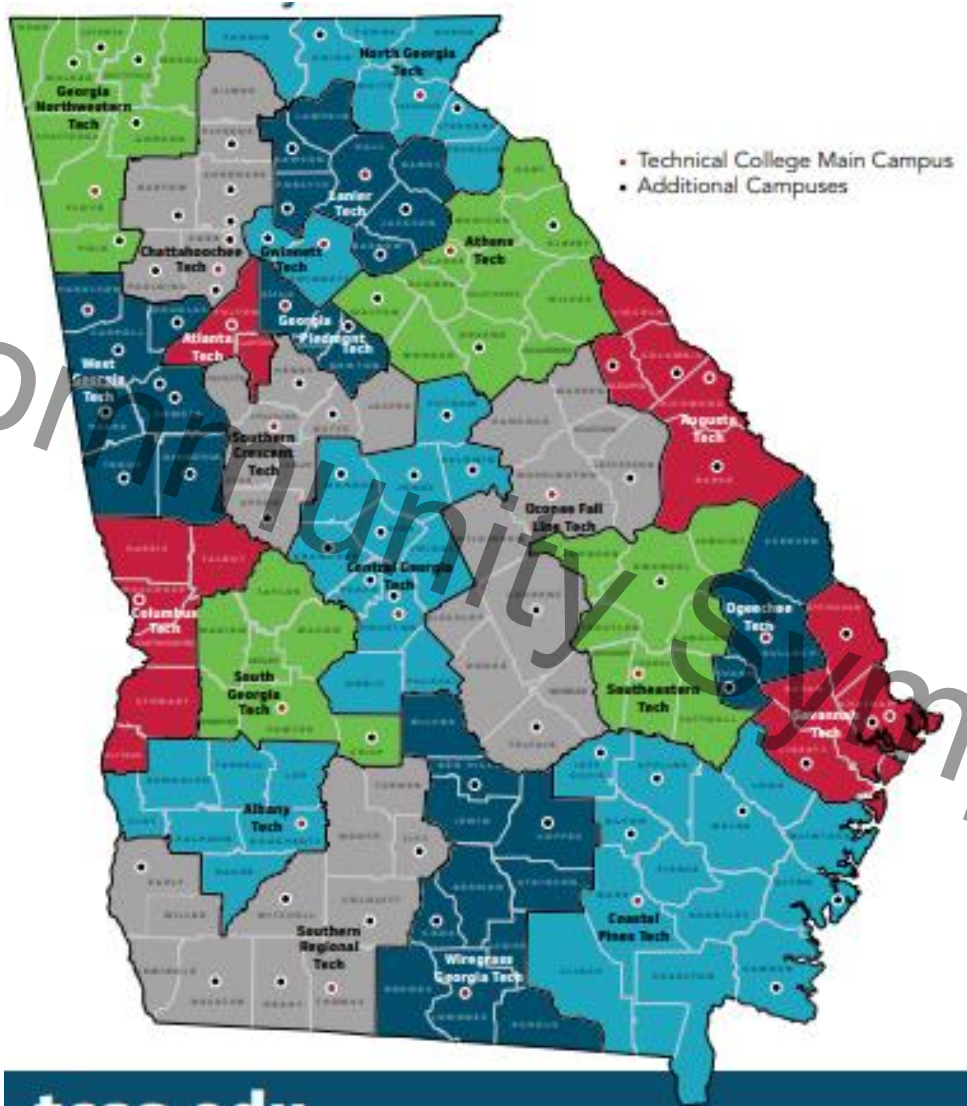
AAS-Cybersecurity course	BS-Cybersecurity course
CIST 2742 – Beginning Python Programming	AIST 2110- Principles of Scripting
CIST 2602 – Network Security	CYBR 2600- Introduction to Networking and Cybersecurity
CIST 2452 – Cisco Switching, Routing & Wireless Essentials	AIST 3310- Advanced Networking
CIST 2613- Ethical Hacking and Penetration Testing	CYBR 3100- Introduction to Defensive Cyber Operations
CIST 2614- CCNA Cyber Ops	CYBR 3200- Cyber Network Defense and Counter Measures
CIST 2431- UNIX/LINUX Introduction	AIST 3AAA- UNIX/LINUX Introduction

Additional approved occupational courses (BS-Cybersecurity free electives)

AAS-Cybersecurity course	BS-Cybersecurity free electives
CIST 1001- Computer Concepts	AIST 1AAA – Computer Concepts
CIST 1122- Hardware Installation & Maintenance	AIST 1AAA – Hardware Installation & Maintenance
CIST 1601- Information Security Fundamentals	ELEC 1AAA – Information Security Fundamentals
CIST 1602- Security Policies & Procedures	AIST 1AAA–Security Policies & Procedures
CIST 2411- Microsoft Client	AIST 2AAA – Microsoft Client
CIST 2451– Introduction to Networks-CISCO	ELEC 2AAA – Introduction to Networks-CISCO
CIST 2601- Implementing Operating Systems Security	ELEC 2AAA-Implementing Operating Systems Security
CIST 2611- Network Defense and Countermeasures	ELEC 2AAA – Network Defense and Countermeasures
CIST 2612- Computer Forensics	ELEC 2AAA – Computer Forensics



2024 CAE
Extend AAS-BS
Cybersecurity
Transfer
Agreement for
all TCSG
institutions



tcsgeu.edu

Copyright Symposium

Cyber Workforce and Education Pathway

We are strengthening the transfer pathways for Georgia's technical colleges and Augusta University's School of Computer and Cyber Sciences.



Cyber Workforce & Educational Pathway Workshop (March 15th, 2024)



CWEP 2024

<https://www.augusta.edu/ccs/conferences/cwep/aboutcwep.php>

- 100+ Attendees included
 - VPs, Deans and Cyber Instructors from AU, ATC and TCSG institutions
 - Lynne Clark: National Centers of Academic Excellence in Cybersecurity (NCAE-C)
 - Dr. Yair Levy: CAE Community of Practice in Cyber Defense (CoP-CD) Initiatives
 - Local CSRA employers of AAS and BS-Cybersecurity graduates
 - Admissions and Transfer support services
 - Curriculum, student experience discussion sessions
 - Tour of GCITC, SOC and Cyber Range

Partners

- Augusta University
- Augusta Technical College
- Georgia Cyber Innovation and Training Center
- Georgia Bureau of Investigation (GBI)
- Savannah River National Lab (SRNL)
- Security Operational Center (SOC)

IS23 and CY13 comparison for Statewide Articulation with AU



IS23 CYBERSECURITY DEGREE
72 HOURS (Articulates)
(15 hours required core)

CIST 1001
CIST 1112
CIST 2451
CIST 1601
CIST 1602
CIST 2601
CIST 2602
CIST 2611
CIST 2612
CIST 2613
ELECTIVE CIST 2742
ELECTIVE CIST 2614 (CIST 2640)
NETWORKING ELECTIVE CIST 2411
NETWORKING ELECTIVE CIST 2431
NETWORKING ELECTIVE CIST 2452

AU Electives

AU Accepted Courses

CY13 CYBERSECURITY DEGREE
60 HOURS (Articulates)
(15 hours required core)

CIST 1001
CIST 1112
CIST 2451
CIST 1601
CIST 1602
CIST 2601
CIST 2602
CIST 2611
CIST 2612
CIST 2613
ELECTIVE
COLL 1010/COMP 1000

2024 CAE
TCSG
Cybersecurity
Curriculum:
60 vs. 72 credit
hours

2024 CAE Challenges and Collaborative Opportunities

- Annual May Workshop for continued discussion and collaboration
- Annually review the data related to student enrollment, retention, academic performance, and completion rates
- Enhance the understanding of transfer students' needs and inform strategies for supporting their success
- Faculty learning community of Cyber Instructors
- CAE support for TCSG institutions
- Internships and Scholarships
- Student Support Services and dedicated advising support

2024 CAE

Questions?
Comments?
Concerns?



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