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

2024 CAE Community Symposium

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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

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Augusta Advantage & Strengthening Transfer Pathways locally

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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

History of AU-ATC Transfer Agreements or Collaboration

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- 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

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

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Extend AAS-BS Cybersecurity Transfer Agreement for all TCSG institutions

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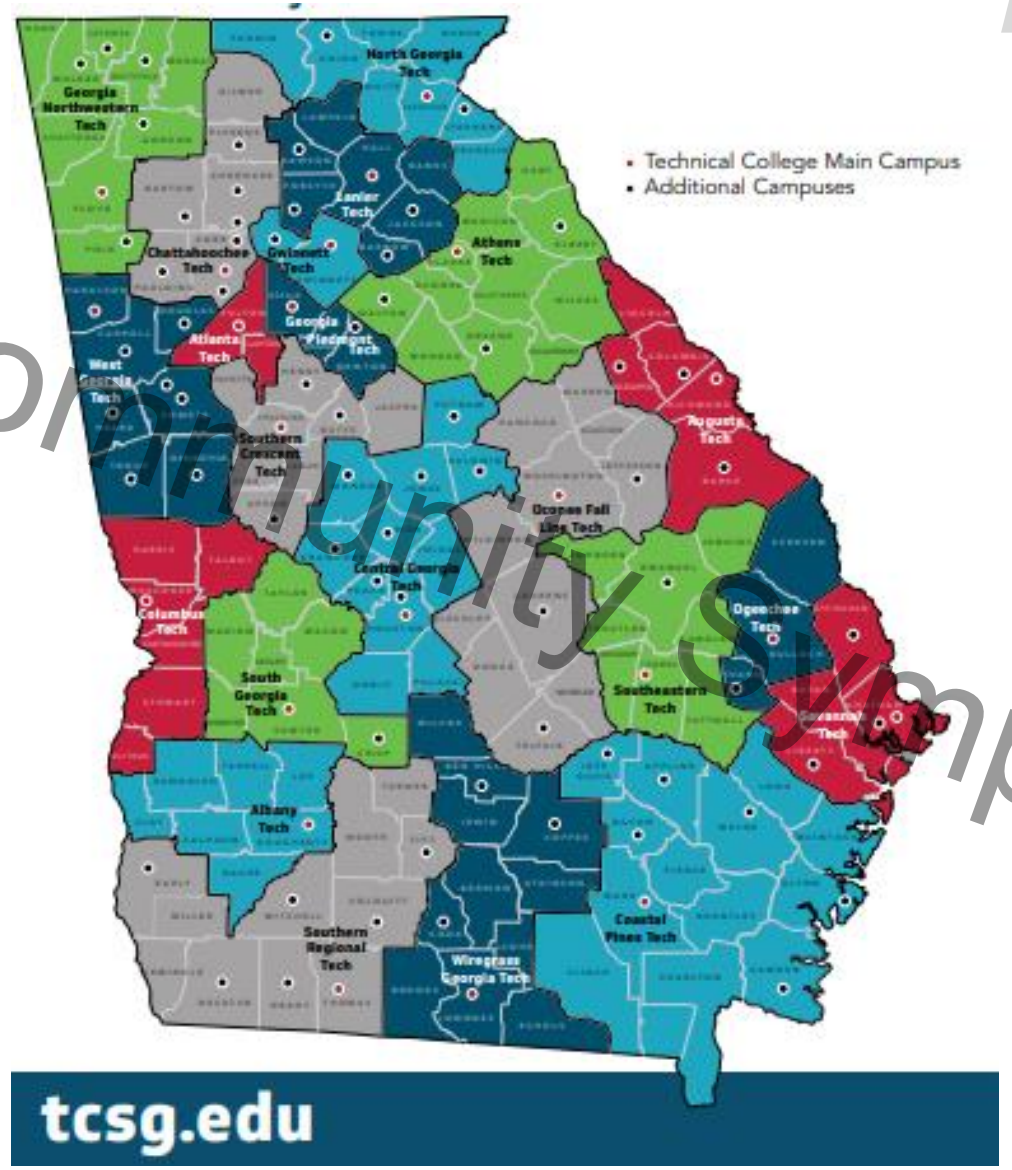

Cyber Workforce and Education Pathway

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

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

AUGUSTA TECH
School of Cyber & Design Media

AUGUSTA UNIVERSITY
SCHOOL OF COMPUTER AND CYBER SCIENCES

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

TCSG Cybersecurity Curriculum: 60 vs. 72 credit hours

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

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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

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Questions?
Comments?
Concerns?

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