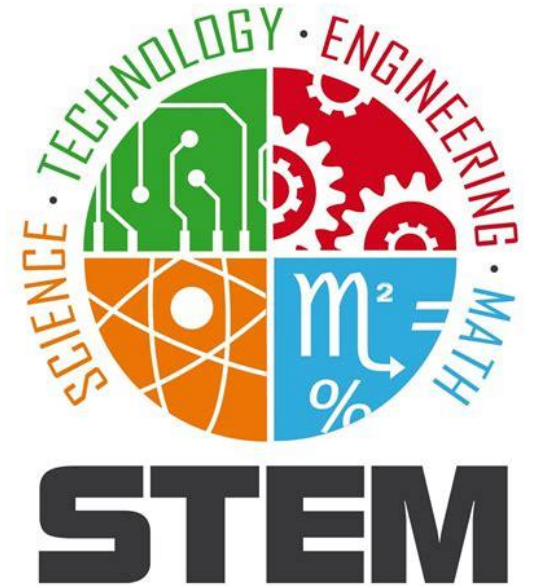# Division of
Science, Technology, Engineering, Mathematics

Burl Yearwood – Dean, STEM
MohamedRafiq Siddiqui – Coordinator, Computer Science program
Faisal Aljamal – Coordinator, Cybersecurity program
Stephen Cronin – HCCC and Cybersecurity alumni

Board of Trustees

October 2022

The Social and Interactive Learning at Community Colleges (SAIL-CC) program

Carnegie Mellon University Learning Lab to help design and develop community college computer science curriculum

HUDSON COUNTY COMMUNITY COLLEGE

What is The Social and Interactive Learning at Community College (Sail–CC)?

- Sail-CC is an online learning platform that provides community colleges with computer science courses created at Carnegie Mellon University through collaboration with the National Institute for Staff and Organizational Development (NISOD).

- Courses are project-based, collaborative, and use real-time feedback to teach at your institution.

Division of Science, Technology, Engineering, Mathematics (STEM)

How Students Learn With The Social and Interactive Learning at Community College (Sail–CC)

They get real.

Students are given real-world problems and find solutions using real-world data, scenarios, and infrastructure.

They get feedback.

Students submit solutions to Sail–CC to get real-time, thought-provoking feedback.

They get better.

Students reflect on their feedback, improve their solutions, and submit them again.

Courses that matter

Develop and design computer science courses in articulation with Carnegie Mellon University in cloud computing that are proven to lead to certifications and jobs.

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Division of Science, Technology, Engineering, Mathematics (STEM)

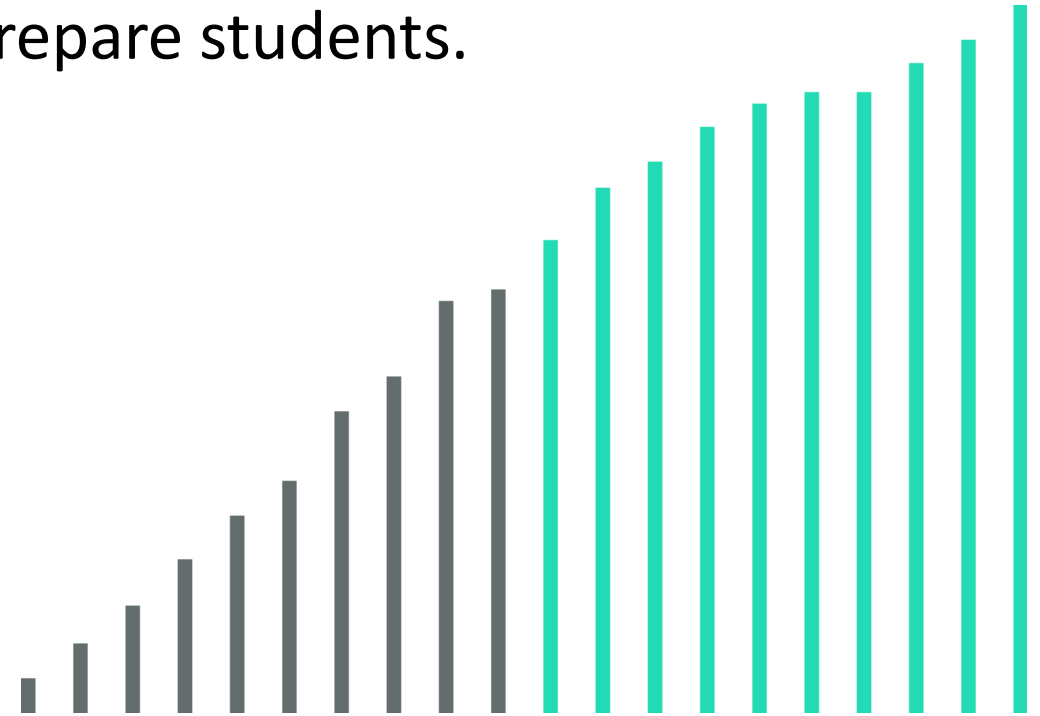# Better way to educate and prepare students.

Courses that matter

Develop and design computer science courses in articulation with Carnegie Mellon University in cloud computing that are proven to lead to certifications and jobs.

Learning Management Systems (LMS) compatible

Sail-CC can be added to our LMS as a third-party tool or use Sail-CC with its own LMS.

Faculty and admin friendly

Access real-time student insights, monitor student progress, and compare student engagement and performance across semesters, all on the instructor's dashboard.

Occupations that leverage the cloud are expected to increase 14.7% over the next 10 years.

*Source https://insights.dice.com/2021/05/07/cloud-computing-skills-boost-your-job-security/

HUDSON COUNTY COMMUNITY COLLEGE

Division of Science, Technology, Engineering, Mathematics (STEM)

Hudson County Community College
is designated as a
National Center of Academic Excellence in Cyber Defense
CAE-CD

https://www.caecommunity.org/cae-map

WHAT IS A CAE IN CYBERSECURITY?

ℹ **Center of Academic Excellence in Cyber Defense (CAE-CD)**

The Center of Academic Excellence in Cyber Defense (CAE-CD) designation indicates that your institution is helping reduce threats to our national infrastructure by promoting higher education and research in cyber defense as well as provide the nation with a pipeline of qualified cybersecurity professionals. All regionally accredited two-year, four-year, and graduate-level institutions in the United States are eligible to apply to become a CAE-CD designated institution. To maintain the CAE-CD designation, an institution or program must apply to be re-evaluated every five academic years.

HCCC is the Third Community College and the 10th institution in N J to be designated as CAE-CD by the National Security Agency (NSA)

HUDSON COUNTY COMMUNITY COLLEGE

Division of Science, Technology, Engineering, Mathematics (STEM)

Goals Outline

Hudson County Community College (HCCC) is committed to provide a high standard cybersecurity education to meet the market demands as well as the community and the nation.

For the next five years, HCCC will work on increasing enrollment in the Cybersecurity program, targeting women and economically underserved minorities.

Along with the existing associate degree in Cybersecurity, efforts are underway to create Certificate in cybersecurity to meet the increasing demand on cybersecurity professionals.

HUDSON COUNTY COMMUNITY COLLEGE

Having met the criteria for measuring the depth and
maturity of an established cybersecurity education program

Hudson County Community College

is hereby designated as a

National Center of Academic Excellence

in

Cyber Defense

for the NSA-Validated Program(s) of Study

through academic year 2027

This certificate is presented in recognition of significant contributions in support of the National Initiative for
Cybersecurity Education (NICE): Building a Digital Nation by broadening the pool of skilled workers with cyber
defense expertise, capable of supporting a cyber-secure nation, and ultimately contributing to the protection of
the national information infrastructure.

PAUL M. NAKASONE
General, U.S. Army
Commander, U.S. Cyber Command

JEN EASTERLY
Director, Cybersecurity and Infrastructure Security Agency

HUDSON
COUNTY
COMMUNITY COLLEGE

Division of Science, Technology, Engineering, Mathematics (STEM)

Michael Howell and Lynne Clark - Presenting the Certificate Of Academic Excellence in Cyber Defense to HCCC on Sep 28th 2022

Lynne Clark is Chief of the NSA/DHS National Centers of Academic Excellence in Cyber Defense (CAE-CD) Program Office.
Prior to this assignment, Ms Clark was Deputy Chief of Workforce Resources, Education and Development for NSA's Information Assurance Directorate (IAD). This included responsibility for IAD's hiring and intern programs, education and professional development for IAD personnel national security mission
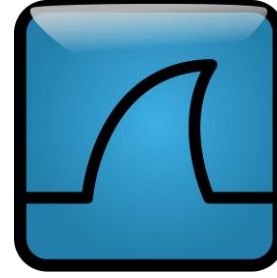
Michael Howell - Department of Homeland Security. Supervisor for Information Technology at Department of Homeland Security. currently working in the National Cybersecurity Communications, and integration Center (NCCIC) and managing the Cybersecurity Watch in Pensacola, FL.

Professor. Faisal Aljamal, Cybersecurity Coordinator, representing HCCC in receiving the Center of Academic Excellence designation Certificate in Cyber Defense CAE-CD (Charlotte, North Carolina)

HUDSON COUNTY COMMUNITY COLLEGE

Real Hands-on-Keyboard Experience

Academic Preparedness

Workforce Preparedness

THANK YOU!

QUESTIONS?