

Moosium



The Power of Community: Increasing Student Engagement, Academic Success and Workforce Readiness Through Cybersecurity Clubs and Activities

Palm Beach State College Student Ethical Hackers Club (EHC)



EHC Club Vision **Building Community Building Character Building Competence** Training & Development Digital Entrepreneurs CyberForce Team Cyber Demonstrations **BrainBowl Competitions** Cybersecurity Symposium CyberWeek Conference College & Univ. Partnerships Cyber Industry Partnerships Canvas Shell Database Results: #2 In State of Florida





Introduction

The CyberiT Pathways project is a cooperative endeavor of Palm Beach State College and the School District of Palm Beach County (PBSC and SDPBC).

The goal of this one-year project was to increase the purpose of workers that are prepared to fill cybersecurity/information technology jobs by creating a model that is suitable for expansion, adoption, and sustainability/scalability in the state.

Project Description

OBJECTIVE 1. Increase the number of students enrolled in SDPBC and PBSC CyberIT pathway programs by 5% in August 2023 as compared to August 2022:

OBJECTIVE 2. Increase the number of industry outifications and degrees earned by SDFBC and PBSC students programs by 5% in August 2023 as compared to August 2022;

OBJECTIVE 3. Create articulated curriculum that aligns instruction at SDPBC with course objectives at PBSC programs by August 2023; and

OBJECTIVE 4. Increase student job readiness through participation in experiential learning programs by at least 95% or targeted students by August 2023.

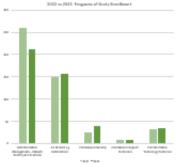


Figure 1. Graph of PBSC student enrollment based on Program of Study. (Updated Summer 2023)

Cybersecurity/IT Pathway Project: PBSC & SDPBC

Project PI: Dwight Elliott, MS., JD., Grant Program Coordinator: Marwan Abdulmalek SDPBC Representatives: Anthony Asci and Moise Derosier

Palm Beach State College & School District of Palm Beach County

Outcomes and Discussion



Figure 3. Teachers from the SDPBC attend protessional development at PSSC for CompTIA IT Fundamentals+ certification

Objective 1. Increase in SDPBC Cybersecurity program

	August 2022	August 2023
Student Enrollment	400	1527

Table 1. Student enrollment in the SDPBC Cybersecurity program increased from August 2022 to August 2023 by over 280%

Objective 3. Increase in Cybersecurity Curriculum & Pathway

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Figure 6. 5 courses were redeveloped/created

NOTE: PBSC and SDPBC Curriculum Mapping Pathway Project ongoing and continuous at all times.



Objective 2. Increase in industry certs and degrees

60.2%	70.2%
62	76
2022	2023
0	8
0	3
	Boot Carep in Progress
	62 2022 0

Objective 4. Increase in job readiness



Figure 8. Job readiness training from Steve Lindeay at Xtec.com at the Spring 2023 Cybersecurity Symposium





Conclusions

Conclusion Summary

PBSC and SDPSC is occlud about our periospetion in the CybernecartyT Pathway grant collaboration intibatives. In spite of many challenges and learning lessons our team at PBSC \$46 55PSC have adjusted throughout the year and stayod the course interest of pathing legisther events and activities since PSLL2022 and into SUMCETICS that will help us achieve the great goals.

Implications for Cybersecurity Education in Florida:

PBBC is committed to continue working with the SDPBC to continue consisting carriculum pathweys and future workloss preparedness for students within the Phirm Beach County area. The CybernocuntyTT industry and landscape will continue to grow exponentially within the Paint Beach County area and PBBC is in a strategic position from an education standpoint to formulate different and partnerships with the SDPBC, non-profit organizations, the gravements sector and private industry to entain our standpoint as the landscape of the profit on each.

 PBSC Cybenecurity Evolution and Growth: The Cybenicounity curriculum continues to copared PBSC and we are committed to creating a strong foundation and infrastructure to propose students for success in the Cybenecurity field. This will have tremendous implications for aniuming that our curriculum adapts to the changes within the Cybenecurity industry.

SDPBC Teacher Insuring Customized Training and

Presentatives Levels: Teachers have various backgrounds in 5th 95, so, car Cyberiscurry barrings must admiss the different low sphisosophic competence and capabilities from a customized sundpoint. Some teachers are more advanced, such as those that work at the Cybery addersion. Thesis for any distinctions on patients of levels of for each teacher will be a positive implications but make the discharge for each teacher will be a positive implications but make the discharge in the SDPPO, and pages.

- PESC Commontum Evolution (PSSC free in-claveraged and color at 54 cosmon in Cyber rectify within the leaf year. We depend on the Commontum of the State of the St
- Ethical Hackers (Out-)EHC), Community Evologment and Impact: All PREC our Ethical Hackers (Cute (EHC)) has been extensibly instrumental, useful and impacts in ornating a community of shaped learning, broaching, mutual growth and divelopment in Oydenscarely, Our students engage in shared Cybenscarelyties, Oydengames, hards on challenges, Ethical hackers patcheties, are well as presentations and competitions, Ethical hackers academic institutions. The club who machine students within the SDPBC who are intenseted in Cybenscarely. For example, one of our top performing students is a dual enroll ment student from the SDPBC. The expensences students obtain in the club will have a streemchase impact that leads to excellenge perpendicutions for students in the Cybenscarely field and the greater Palm Beach County series.

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Cybersecurity/IT Pathway Grant Activities: Results & Impact





Cyber Workforce Readiness & Cybersecurity Industry Partners

Cyberbit

Cyberhub

CyberFlorida

Splunk

National Cyberleague (NCL)

Florida College System (FCS)

Discord

USF

FIU

MDC



