

 <p>CYBER P-TECH USA at Sam Houston High School in partnership with St. Philip's College Alamo Colleges District</p>	<p>Sam Houston High School</p> <p>STEERING COMMITTEE PRESENTATION</p> <p>AGENDA</p> <p>Fall 2023</p>	
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BENCHMARK 1: SCHOOL DESIGN

<p>1.2 School Location</p>	<p>4365 E. Houston Street San Antonio, Texas 78220</p>																													
<p>1.3 Student Cohorts</p>	<table border="1"> <thead> <tr> <th data-bbox="284 703 519 756">Cohort</th> <th data-bbox="519 703 706 756">Total</th> <th data-bbox="706 703 860 756">AAS</th> <th data-bbox="860 703 1266 756">Cybersecurity Specialist Level 1</th> <th data-bbox="1266 703 1494 756">Security+ (OSA)</th> </tr> </thead> <tbody> <tr> <td data-bbox="284 756 519 798">2024</td> <td data-bbox="519 756 706 798">20</td> <td data-bbox="706 756 860 798">0</td> <td data-bbox="860 756 1266 798">7</td> <td data-bbox="1266 756 1494 798">16</td> </tr> <tr> <td data-bbox="284 798 519 840">2025</td> <td data-bbox="519 798 706 840">15</td> <td data-bbox="706 798 860 840">0</td> <td data-bbox="860 798 1266 840">0</td> <td data-bbox="1266 798 1494 840">5</td> </tr> <tr> <td data-bbox="284 840 519 882">2026</td> <td data-bbox="519 840 706 882">7</td> <td data-bbox="706 840 860 882">0</td> <td data-bbox="860 840 1266 882">0</td> <td data-bbox="1266 840 1494 882">0</td> </tr> <tr> <td data-bbox="284 882 519 934">Total</td> <td data-bbox="519 882 706 934">42</td> <td data-bbox="706 882 860 934">0</td> <td data-bbox="860 882 1266 934">7</td> <td data-bbox="1266 882 1494 934">21</td> </tr> </tbody> </table>					Cohort	Total	AAS	Cybersecurity Specialist Level 1	Security+ (OSA)	2024	20	0	7	16	2025	15	0	0	5	2026	7	0	0	0	Total	42	0	7	21
Cohort	Total	AAS	Cybersecurity Specialist Level 1	Security+ (OSA)																										
2024	20	0	7	16																										
2025	15	0	0	5																										
2026	7	0	0	0																										
Total	42	0	7	21																										



BENCHMARK 2: PARTNERSHIPS

2.1 Goal of Higher Education Partnerships (St. Phillip's College, Alamo Colleges)

The P-TECH program offers open enrollment and flexible scheduling structures that enables students to combine high school, postsecondary courses, and work-based learning, at no cost to participating students.

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St. Philip's College



Grade Level	Class Year	Number of Students (09/2023)	ATTRITION	ON TRACK TO ASSOCIATES	ON TRACK LEVEL ONE
9	Class of 2027	36	N/A	N/A	N/A
10	Class of 2026	7	7/14 = 50%	0/7 = 0%	7/7 = 100%
11	Class of 2025	15	2/17 = 12%	0/15 = 0%	14/15 = 93%
12	Class of 2024	20	1/21 = 4%	0/20 = 0%	14/20 = 70%

2.4 Academic Plan

- Information Technology Cybersecurity Specialist A.A.S. (60 credits)
- Information Technology Cybersecurity Specialist Level 1 Certificate (28 credits)
- CompTIA Security+ Cert Preparation (Occupational Skill Awards)
- CompTIA Linux+ Cert Preparation (Occupational Skill Award)
- Cyber First Responder (Occupational Skill Awards)
- Business Management and Technology, A.A.S. (60 credits)
- Small Business Management Level 1 Certificate (21 credits)

2.7 Staffing Plan

- At the moment, we have two vacancies for Cybersecurity teachers, and two long term substitutes filling in.
- Cyber P-TECH teacher candidates must qualify for Adjunct Faculty position with Alamo Colleges, with at least a bachelor's degree and 18 credit hours in content they will be teaching.

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Campus Principal	Dr. Nakeshia Bibbs
P-TECH Coordinator	Zakia Abbas
P-TECH Support Teacher	Ly’Ron Henderson
P-TECH Teacher 1	Vacant (LT Sub)
P-TECH Teacher 2	Vacant (LT Sub)

2.9 Access to Higher Education Resources

- **Dual Credit Classes are synchronous & facilitated by a Substitute Teacher**
- **Students enrolled in ITNW 2412 visit IHE campus once a week for tutoring with instructor.**
- **Instructor visits high school campus once a week to provide students with instruction.**
- **Students check out laptops from IHE to download software necessary for assignments.**

2.10 Collaborative Outreach Efforts

The Cyber P-TECH program serves and supports students in Grades 9 through 14 and shall target and enroll students who are at risk of dropping out of school as defined by the Public Education Information Management System (PEIMS) and who might not otherwise attend college after leaving high school.

The program has a presence at all school events attended by parents and/or community members.

2.13 Academic Supports

Cyber P-TECH works in collaboration with IHE to offer academic advisement to students, at a minimum of once a semester. IHE’s High School Program Coordinator visits high school campus monthly and in collaboration with P-TECH Coordinator advises students regarding college courses and graduation timeline.

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BENCHMARK 3: TARGET POPULATION

Cyber P-TECH program plans on recruiting incoming freshmen for the 2024-2025 school year by visiting SAISD middle schools and promoting the Dual Credit Cyber program.

The campus website displays [Enrollment Link](#) & QR Code.

3.2 Documenting Enrollment Procedures

Grade Level	Class of (Year)	P-TECH Program Students (Oct 2023)	Campus Students (Oct 2023)
9	2027	(36 / 285) 13%	(285 / 832) 35%
10	2026	(7 / 208) 3%	(208 / 832) 25%
11	2025	(15 / 178) 8%	(178 / 832) 21%
12	2024	(20 / 161) 12%	(161 / 832) 19%

Gender	Campus (%)	District (%)
M	(442 / 832) 53%	51%
F	(390 / 832) 47%	49%
Special Population	Campus (%)	District (%)
At-Risk	(357 / 832) 43%	68%
Econ. Dis.	(764 / 832) 92%	88%
SpEd	(131 / 832) 16%	89%
504	(42 / 832) 5%	28%
ELL	(83 / 832) 10%	91%

Recruitment plan reflection

Timeline	Activity
Fall 2023	Homecoming Festival & Middle School Open Houses
Jan 2024 – Feb 2024	Recruitment & Presentations at SAISD Middle Schools
March 2024	Spring Festival
March 2024 – June 2024	Virtual Parent Information Sessions

3.3 Stakeholder Engagement

Cyber P-TECH will provide services and opportunities involving multiple stakeholders (parents, teachers, students, community members, etc.) to bolster academic and interpersonal skills for high school and college readiness, and provide support to students via rigorous academic and work-based learning experiences.

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Back to School Night @ SHHS
Meet the Hurricanes Night
Website & Social Media
PTSA Meetings
Rightsizing Community Meetings
Recruitment Fairs at Middle Schools

BENCHMARK 4: ACADEMIC INFRASTRUCTURE

4.2 Postsecondary Opportunities

- **Students in the Cyber P-TECH program have the provision of being P-TECH Scholars for their 5th & 6th year (2 years upon high school graduation). The P-TECH department will support these graduates and provide them with guidance while they continue their college education with the IHE (Alamo Colleges).**
- **The IHE also offers Transfer Advisement Guides (TAG) that allow students to transfer their college credits in Cybersecurity to other 4 year universities.**
 - [TAG for University of Texas at San Antonio](#)
 - [TAG for Texas A&M University](#)
 - [TAG for Texas State University](#)

Degrees & Certificates

- Information Technology Cybersecurity Specialist A.A.S. (60)
- Information Technology Cybersecurity Specialist Level 1 Certificate (28)
- CompTIA Security+ Cert Preparation (Occupational Skill Awards) (10)
- CompTIA Linux+ Cert Preparation (Occupational Skill Award) (9)
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4.5 Delivery of Courses

Program of Study – Information Technology

Asynchronous Courses

CompTIA Security + Certification Preparation (OSA) (10)

ITNW 1308 - Implementing and Supporting Client Operating Systems
ITNW 1425 - Fundamentals of Networking Technologies
ITSY 1342 - Information Technology Security

CompTIA Linux+ Certification Preparation (OSA) (9)

ITSC 1316 - Linux Installation and Configuration
ITSY 1342 - Information Technology Security
ITSC 2325 - Advanced Linux

Cyber First Responders (OSA) (11)

ITSY 1342 - Information Technology Security
ITSY 2442 - Incident Response & Handling
ITSY 2443 - Computer System Forensics

Information Technology Cybersecurity Specialist Level 1 Certificate (20)

ITSC 1316 - Linux Installation and Configuration
ITNW 1308 - Implementing and Supporting Client Operating Systems
ITNW 1425 - Fundamentals of Networking Technologies
ITSY 1342 - Information Technology Security
ITSY 2301 - Firewalls and Network Security or ITSC 2325 Advanced Linux
ITNW 2412 - Routers

Information Technology Cybersecurity Specialist, A.A.S. (60)

ITNW 1308 - Implementing and Supporting Client Operating Systems
ITNW 1425 - Fundamentals of Networking Technologies
ITSC 1316 - Linux Installation and Configuration
Creative Arts Core Course
ITSY 1342 - Information Technology Security
ITNW 2405 - Network Administration
ITNW 2412 - Routers
COSC 1336 - Programming Fundamentals I
Social and Behavioral Sciences Core Course
Mathematics Core Course
ITNW 1413 - Computer Virtualization
Communication Core Course
ITSY 2301 - Firewalls and Network Security or ITSC 2325 Advanced Linux
Communication Core Course
ITSY 2442 - Incident Response and Handling
ITSY 2443 - Computer System Forensics
ITSY 2430 - Intrusion Detection
ITSY 2286 - Internship - Computer and Information Systems Security

Program of Study – Business Management & Technology

Asynchronous Courses

Small Business Management Level 1 Certificate (21)

MRKG 1311 - Principles of Marketing
HRPO 1311 - Human Relations
BMGT 1301 - Supervision (milestone course)
BUSG 2309 - Small Business Management
BMGT 2331 - Principles of Quality Management
BMGT 2303 - Prob-Solving & Decision-Making or BMGT 1341 Bus Ethics
BUSG 2305 - Business Law/Contracts or BUSI 2301 Business Law I

Business Management and Technology, A.A.S. (60)

COSC 1301 - Introduction to Computing or BCIS 1305 Business Computer Applications
HRPO 1311 - Human Relations
MRKG 1311 - Principles of Marketing
BMGT 1301 - Supervision (milestone course)
BMGT 1309 - Info and Project Management or BMGT 1327 Principles of Management
ENGL 1301 - Composition I
BMGT 2303 - Problem-Solving & Decision-Making or BMGT 1341 Bus Ethics
BMGT 2331 - Principles of Quality Management
BUSG 2305 - Business Law/Contracts or BUSI 2301 Business Law I
BUSG 2309 - Small Business Management (milestone course)
Language, Philosophy & Culture (40) Core or Creative Arts (50) Core Course
Social and Behavioral Sciences (80) Core Course
ITSY 1342 - Information Technology Security
HRPO 2307 - Organizational Behavior
POFT 2312 - Bus Correspondence & Comm or IBUS 1305 Intro to International Bus & Trade
Mathematics (20) Core
ACCT 2301 - Principles of Financial Accounting
MRKG 2333 - Principles of Selling
BMGT 2389 - Internship - Business Administration and Management, General
BMGT 2309 - Leadership

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4.10 Student Pathway support

College Credential Awarded (senior cohort)		5-6 Year Support
13	Cybersecurity Specialist Level 1 Certificate	8
18	Security + (OSA)	
10	Cyber First Responder	

BENCHMARK 5: STUDENT SUPPORT

5.5 Wrap-Around Strategies and Services

High School	College
Ongoing & Summer Bridge Programs CLEP Testing opportunities & study guides P-TECH Support Teacher Communities in Schools	Monthly academic advising by IHE DC Coordinator Weekly tutoring Sessions at IHE by faculty Technology and device loaners by IHE CLEP Testing venue & proctoring

5.7 College and Career Preparation

The Cyber P-TECH program provides a rigorous course of study that enables students to receive a high school diploma, an associate degree, and industry certifications towards college and career readiness.

The program will hold its own testing sessions for the Texas Success Initiative (TSI) monthly. This will allow students to take their TSI exam with the program and schedule it based on their flexibility.

With the support of a grant, the program will further a student's college readiness by offering 4 CLEP Exams on an ongoing basis with the IHE testing center, allowing students to earn a semester's worth of college credits.

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BENCHMARK 6: WORK-BASED LEARNING

Past and Upcoming WBL Experiences

** Projected

Experience	Description	Grades	Engagement
Career Training (ongoing weekly)	Students repair broken district chrome books with training from technology team	11	99%
Career Workshop	National Security Agency High School Career Workshop	10 -12	86%
Guest Speaker	Mims Institute Founder – Lieutenant Colonel Mims	10 - 12	92%
Career Workshop	Power Your Future Youth Workshop – CPS Energy	9 - 12	91%
Job Shadow	USAA Job Shadow Day	9 - 12	**90%
Field Trip	Monster TECH Fest – St. Phillips College	9 - 12	**95%
Guest Speaker	UTSA Cybersecurity Department Associate Professor	10 - 11	**98%



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