



Sam Houston High School

PTECH

STEERING COMMITTEE PRESENTATION

Presenter: Zak Abbas

Location: St. Philip's College

Date: October 31, 2023

Time: 1:00 pm

www.saisd.net

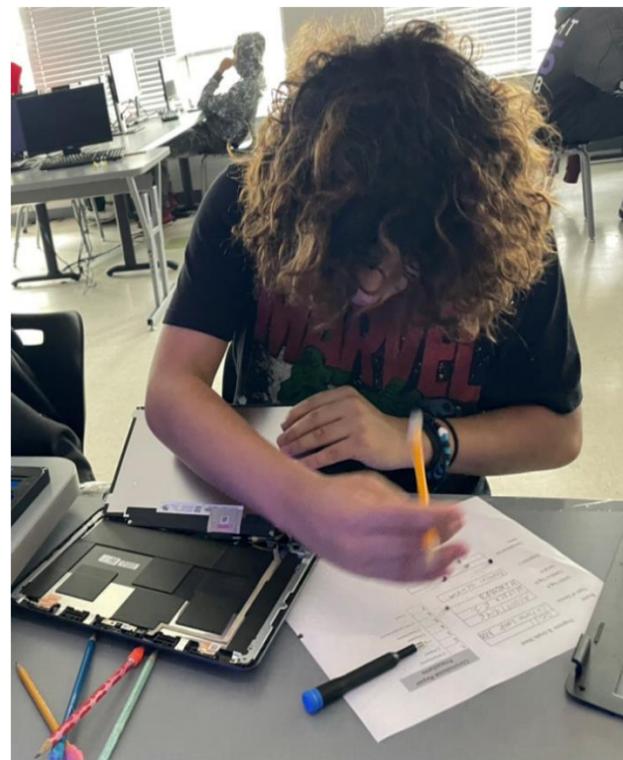
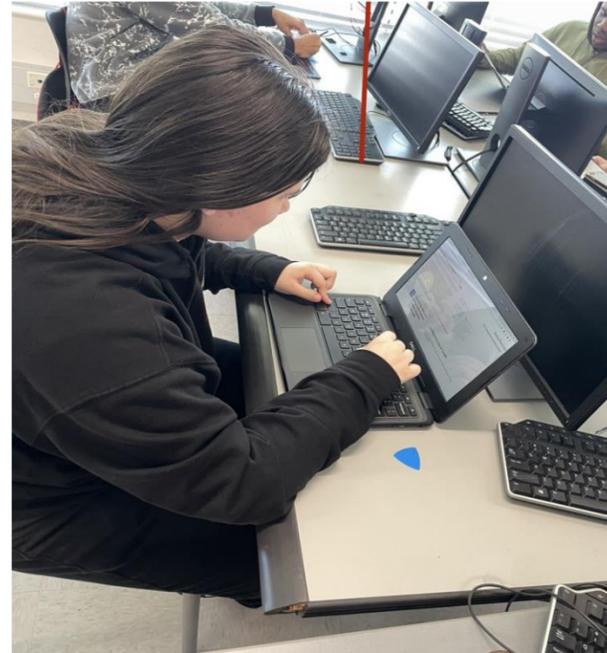


THREE P'S



Purpose	Process	Payoff
To ensure students obtain Industry Based Certifications, Professional Certifications, and Associate Degrees that lead to careers and college readiness after high school in a pathway of technology.	To provide information about the program's potential and come to a mutual agreement on best practices as they related to Cyber P-TECH USA.	Students are provided with all resources needed to move into high yielding careers in Cybersecurity or Information Technology after high school graduation.

Student Success Stories



These Juniors are in their second year as part of the Tech Team. They get training from the district IT department on repairing various models of chrome books. They then spend one P-TECH class period a week on independently repairing broken campus and district devices.

Last year they repaired over 200 devices, and this year, they have already fixed the first batch of broken chrome books received from the campus librarian.

BENCHMARK 1: SCHOOL DESIGN



The Pathways in Technology Early College High School (P-TECH) shall establish school structures and policies, regularly convene leadership teams, and ensure adequate staff capacity for the successful implementation and sustainability of the P-TECH program.

1.2 School Location	School within a School Model 4635 E. Houston Street San Antonio, Texas 78220			
1.3 Student Cohorts	Numbers only include EARNED, not projected.			
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

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1.6	Leadership Team Strategic Priorities	<ul style="list-style-type: none">• Conducting Bi-weekly ECHS/P-TECH Check-ins with updates• Devising strategic priorities for P-TECH campus and program• Ensuring DEI (Diversity, Equity & Inclusion)• Providing technology resources professional development
1.7	Leadership Team Key Roles	<ul style="list-style-type: none">• Dr. Johnny Vahalik, Assistant Superintendent – CCMR• Christina Mank-Allen, CTE Director• Yvonne Benton, District P-TECH Coordinator• Brian Goethe, CTE Coordinator• Brenda Burmeister, Work Based Learning Coordinator• Ruby Pena, Dual Credit Coordinator
1.8	Campus & P-TECH Team	<ul style="list-style-type: none">• Dr. Nakieshia Bibbs, Principal• Kandace Merchant, Assistant Principal• Zakia Abbas, P-TECH Coordinator• Ly’Ron Henderson, P-TECH Support Teacher• Vacant, P-TECH Teacher• Vacant, P-TECH Teacher

BENCHMARK 1: SCHOOL DESIGN



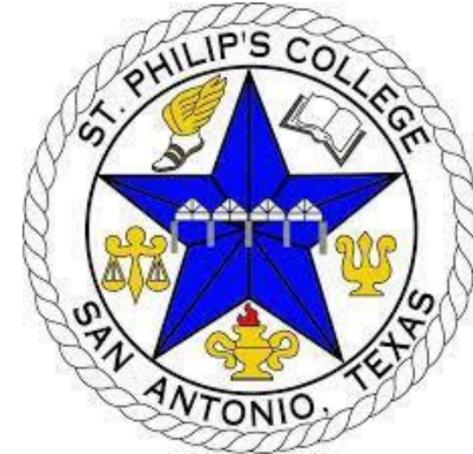
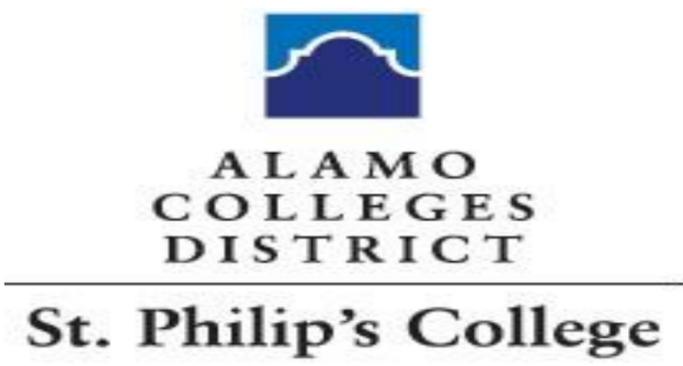
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1.9	P-TECH Staff Professional Development	<ul style="list-style-type: none">• Teacher mentors provided by IHE for P-TECH Teachers• Annual training for P-TECH Staff with IHE• Dual Credit and CCRSM Conferences• TEA Coach via Educate Texas
1.11	Advisory Board	<ul style="list-style-type: none">• Industry partners• IHE faculty & staff• District leadership team• Campus & P-TECH campus team

BENCHMARK 2: Partnerships



The Pathways in Technology Early High School (P-TECH) must have a current, signed memorandum of understanding (MOU) or interlocal agreement (ILA) with each Institution of Higher Education (IHE). The P-TECH must also have a current and signed agreement with each business/industry partner. Both agreements must respectively outline key issues related to the planning, implementation, and sustainability of the P-TECH program. Stakeholders shall review the MOUs and agreements annually.



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%



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St Phillip's College	H-E-B
Tech Port SA	CPS Energy
Be Sides SATX	Booz Allen Hamilton
Deloitte & Touche LLP	KTG Management & Consulting
Ready To Work	Vulcan
Greater SATX	USAA
Mims Institute Fellows	Oracle
Alamo Workforce Solutions	Cyber Future Foundations
Arctic Wolf	(ISC)2

BENCHMARK 3: TARGET POPULATION



The Pathways in Technology Early College High School (P-TECH) shall target and enroll historically underserved students. The campus must enable students who are at-risk of dropping out or those who wish to accelerate completion of high school to combine high school courses and college-level courses.

Enrollment decisions shall not be based on state assessment scores, discipline history, teacher recommendations, parent or student essays, minimum grade point average (GPA), or other criteria that create barriers for student enrollment.

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%

BENCHMARK 3: TARGET POPULATION

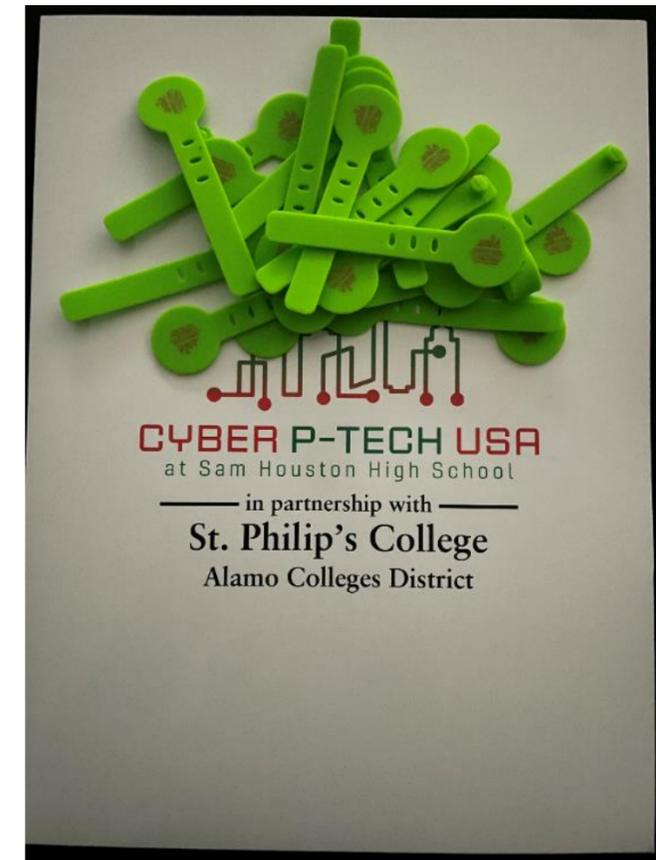


The P-TECH program shall serve, or include plans to scale up to serve, students in Grades 9 through 14, and shall target and enroll students who are at risk of dropping out of school as defined by the Public Education Information Management System (PEIMS) and who might not otherwise go to college.

Admission policy reflection

At SAISD, we believe that all children should have access to a variety of school options regardless of their academic abilities or where they live. Choice Schools and Magnet Programs offer specialized academic programming designed to best fit the individual interests of students. An application is required to gain admission to these schools. Admission is based on a lottery system* and is open to all students living in Bexar county and surrounding areas.

Recruitment Materials



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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

Stakeholder Engagement
• Brochures
• Information Packet
• Social Media
• Website

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Stakeholder Engagement – Information Packet Sample



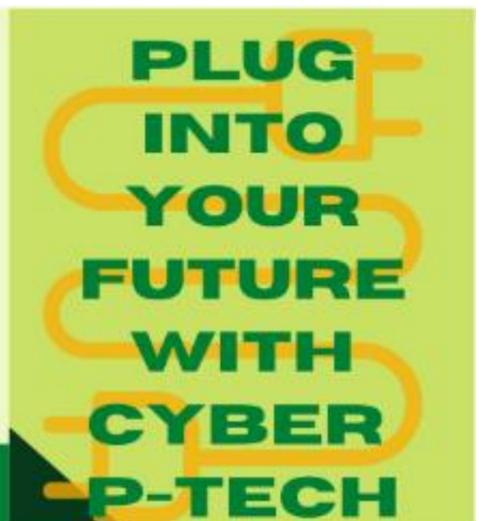
APPLY TODAY



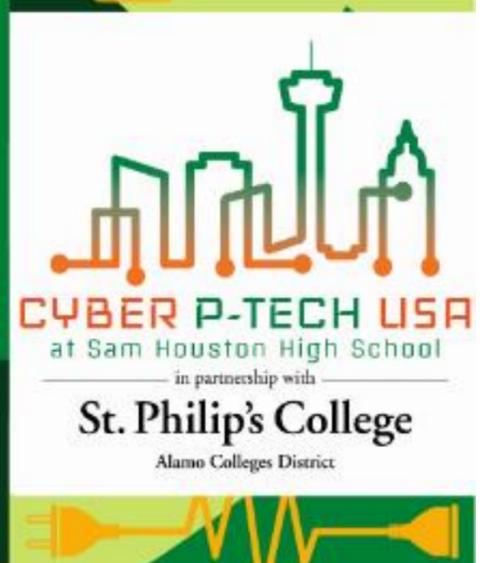
JOIN US

Contact:
Zakia Abbas
Zabbas1@saisd.net
(210) 978-7900
www.saisdchoice.com





PLUG INTO YOUR FUTURE WITH CYBER P-TECH



CYBER P-TECH USA
at Sam Houston High School
in partnership with
St. Philip's College
Alamo Colleges District



SAMSAT

Cyber P-TECH Extracurriculars

Capture the Flag
eSports
CyberPatriots
Hackfest Robotics

4635 E. Houston St
San Antonio, TX 78220

We strive to ensure every P-TECH student graduate with their high school diploma, an industry-based certification and a post-secondary credential.



Cyber P-TECH Pathways

A Pathways in Technology Early College High School in partnership with St. Phillips College offering programs in:

- Information Technology, Cyber Security
- Business Management and Technology

Application Information
Students from anywhere in Bexar County can apply for a seat in the 9th or 10th grade P-TECH cohort. Applications are accepted until program is full.

Questions?
Call us at 210-978-8010 or e-mail
Zabbas1@saisd.net

Apply online at
www.SAISDCHOICE.com

BENCHMARK 4: Academic Infrastructure

The Pathways in Technology Early College High School (P-TECH) must provide a rigorous course of study that allows students the opportunity to earn a high school diploma and enable a student to combine high school courses and college-level courses with the goal of earning industry-based certifications, certificates, and/or an associate degree and engage in appropriate work-based learning at every grade level.

Effective Date	Board Area	(SOC) (O*NET) Job Code	Target Occupation Job Title (Name)	Entry-Level Wage	Percent Found in Private Employment
3/15/2021	Alamo	11-3021	Computer and Information Systems Managers	\$ 96,544	90.18%
3/15/2021	Alamo	17-2061	Computer Hardware Engineers	\$ 58,758	85.29%
3/15/2021	Alamo	15-1241	Computer Network Architects	\$ 66,552	95.56%
3/15/2021	Alamo	15-1231	Computer Network Support Specialists	\$ 41,705	87.36%
3/15/2021	Alamo	15-1211	Computer Systems Analysts	\$ 62,816	91.54%
3/15/2021	Alamo	15-1232	Computer User Support Specialists	\$ 33,817	84.10%
3/15/2021	Alamo	15-1212	Information Security Analysts	\$ 65,476	93.75%
3/15/2021	Alamo	15-1244	Network and Computer Systems Administrators	\$ 57,633	85.19%
3/15/2021	Alamo	15-1252	Software Developers	\$ 70,492	97.66%

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4.1 Curriculum, Instruction & Assessment

- 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)
- Cyber First Responder (Occupational Skill Awards) (11)
- Business Management and Technology, A.A.S. (60)
- Small Business Management Level 1 Certificate (21)

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4.3 Crosswalk

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

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4.3 Crosswalk

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

BENCHMARK 4: Academic Infrastructure

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4.5 College Readiness

- TSI Testing – Ongoing with Campus Testing Coordinator & P-TECH Department
 - Requirements 945 ELAR Diag. 5/950 Math Diag. 6
- CTE Completers - All graduating students will have STEM Endorsement
- Year 5-6 planning - PTECH Scholars Program providing support to high school graduates continuing path with IHE.

4.8 Student Data Tracking

- Student data and outcomes are monitored on a Student Tracker spreadsheet and Schoolinks.
- Assessment scores are tracked for CCMR.
- Course convention for following year is planned based on Student Tracker.

BENCHMARK 5: Student Support



The Pathways in Technology Early College High School (P-TECH) must provide wrap-around strategies and services involving multiple stakeholders to strengthen academic, technical, and individual support for students to be successful in their P-TECH program.

5.1 Bridge Programs

- Summer 2023 Bridge program was changed to ongoing Bridge program throughout the 2023-2024 school year with college trips, TSI test preparation, and career workshops.
- Summer Bridge 2024 program will be scheduled for June 2024

5.2 Advising

- Once a month with the IHE College Coordinator of HS programs
- Campus counselors & P-TECH Coordinator

5.3 Student Intervention

- Students enrolled in select courses visit the IHE campus once a week to receive instructional support from the course instructor.
- IHE faculty visit the high school campus once a week for continued support with select courses.

BENCHMARK 5: Student Support



The Pathways in Technology Early College High School (P-TECH) must provide wrap-around strategies and services involving multiple stakeholders to strengthen academic, technical, and individual support for students to be successful in their P-TECH program.

5.4 Classroom Supports

- Weekly Grade Checks
- P-TECH Support Teacher
- Communities in Schools
- Positive Behavioral Interventions and Support (PBIS)

5.6 Enrichment Opportunities

- Family Outreach Events such as Meet the Teacher Night, Homecoming Festival, Parent-Teacher Conferences
- Field trips to industry partners
- Work study programs
- Job shadow days
- Guest speakers.

BENCHMARK 6: Work-Based Learning



The Pathways in Technology Early College High School (P-TECH) must offer students a variety of relevant, high-skill work-based learning experiences at every grade level that respond to student interest and regional employer needs and contribute to students earning aligned industry certifications and credentials.

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%

ACCESS OBMs



Access Outcomes-Based Measures

Student representation in the P-TECH program.

Data Indicators	Designated	Distinction	Cohort				
			2024	2025	2026	2027	District
	Must meet targets on “At-Risk Students” and “Economically Disadvantaged Students” designated data indicators	Must meet all designated access data indicators and two access distinction data indicators					
ECHS proportionate to or over-represents at-risk incoming 9th graders	No more than 25% points under district (9-12)	No more than 20% under district (grades 9-12)	(20 / 20) 100%	(15 / 15) 100%	(7 / 7) 100%	(36 / 36) 100%	75%
ECHS proportionate to or over-represents economically disadvantaged students	No more than 10% under district (grades 9-12)	No more than 5% under district (grades 9-12)	(20 / 20) 100%	(15 / 15) 100%	(7 / 7) 100%	(36 / 36) 100%	89%
ECHS proportionate to or over-represents English learners (incoming 9th graders)	Not considered for designation	No more than 10% under district	(5 / 20) 25%	(2 / 15) 13%	(1 / 7) 14%	(7 / 36) 19%	24%
ECHS proportionate to or over-represents students with disabilities	Not considered for designation	No more than 10% under district	(5 / 20) 25%	(3 / 15) 20%	(1 / 7) 14%	(6 / 36) 16%	16%

ACHIEVEMENT OBMs



Achievement Outcomes-Based Measures

Student achievement through high school based opportunities.

****Projected**

Data Indicators	Designated	Designated with Excellence	Cohorts			
			2024	2025	2026	2027
	Must meet targets on at least three attainment data indicators	Must meet targets on at least three attainment data indicators				
Algebra EOC I Assessment	70% of students achieve “Approaches Grade Level Performance” or higher by the end of 9th grade	80% of students achieve “Approaches Grade Level Performance” or higher by the end of 9th grade	(18 / 20) 90%	(11 / 15) 73%	(7 / 7) 100%	(30 / 36) **83%
English II EOC Assessment	70% of students achieve “Approaches Grade Level Performance” or higher by the end of 11th grade	80% of students achieve “Approaches Grade Level Performance” or higher by the end of 11th grade	(20 / 20) 100%	(15 / 15) **100%	(7 / 7) **100%	(36 / 36) **100%
College Readiness in Mathematics and ELA/Reading	40% of students meet TSIA criteria in mathematics and ELA/Reading (CCMR definition) by graduation	50% of students meet TSIA criteria in mathematics and ELA/Reading (CCMR definition) by graduation	(20 / 20) 100%	(15 / 15) **100%	(7 / 7) **100%	(36 / 36) **100%
High School Graduation Rate	Campus is within 5% of statewide 4- year graduation rate	Campus exceeds the statewide 4-year graduation rate	**85%	**87%	**89%	**91%
CTE Program Status by 11th grade	55% of students meet CTE concentrator or computer status by the end of the 11th grade	65% of students meet CTE concentrator or computer status by the end of the 11th grade	(20 / 20) 100%	(15 / 15) **100%	(7 / 7) **100%	(36 / 36) **100%
CTE Program Status by graduation	65% of students graduate as a CTE concentrator or completer by graduation	75% of students graduate as a CTE concentrator or completer by graduation	(20 / 20) 100%	(15 / 15) **100%	(7 / 7) **100%	(36 / 36) **100%

ATTAINMENT OBMs



Attainment Outcomes-Based Measures

Student attainment of postsecondary opportunities such as Industry Based Certifications, Dual Credit, Level I or II Certificates, and/or Associate Degree.

Data Indicators	Designated	Designated with Excellence	Cohorts			
	Must meet targets on at least three Attainment designation data indicators	Must meet targets on at least three attainment designation data indicators	2024	2025	2026	2027
Earn 3 College Credits	50% of students earn 3 college credits (any) by the end of 10th grade	60% of students earn any 3 college credits by the end of 10th grade	(20 / 20) 100%	(15 / 15) 100%	(7 / 7) 100%	(36 / 36) **100%
Earn 9 College Credits	40% of students earn 9 college credits (any) by the end of 11th grade	50% of students earn any 9 college credits by the end of 11th grade	(20 / 20) 100%	(15 / 15) 100%	(7 / 7) **100%	(36 / 36) **100%
Earn 15 College Credits	40% of students earn 15 college credits (any) by graduation	50% of students earn any 15 college credits by graduation	(17 / 20) 85%	(11 / 15) **73%	(7 / 7) **100%	(28 / 36) **78%
Earn a Certificate or Associate Degree	30% of students earn an associate degree or Level I or II certificate by graduation	30% of students earn an associate degree or Level I or II certificate by graduation	(14 / 20) **70%	(14 / 15) **93%	(7 / 7) **100%	(28 / 36) **78%
Earn an Industry Based Certification (IBC)	50% of students earn an Industry Based Certification by graduation	60% of students earn an Industry Based Certification by graduation	(14 / 20) **70%	(14 / 15) **93%	(7 / 7) **100%	(36 / 36) **100%
Persistence	75% of students enrolled remain in the P-TECH program through graduation	** Projected	(15 / 20) 75%	(12 / 15) **80%	(6 / 7) **85%	(28 / 36) **78%

Success and Opportunities



Success

- Tech teams for students repairing devices
- IHE student advisement, transcript audits, and course registrations.
- IHE faculty availability with visits to high school campus and tutoring at IHE campus.
- Campus support – Administration and school staff are very supportive of the program and incredibly accommodating.
- Students identified to take 4 CLEP Exams to earn college credits towards Associate's degree.
- BMT high school teacher now Adjunct faculty with approval to teach 5 college courses.

Opportunities

- Improved communication between high school and IHE faculty regarding student smart drops.
- Enhanced faculty support and understanding for Dual Credit high school students.
- Allocate school time for students to prepare for CLEP Exams, thus earning additional college credits.

Problem of Practice – Steering Committee

Areas of focus

- Identify ways to recruit and retain high school cyber teachers also qualified to be Adjunct faculty with IHE.
- Explore ways long-term substitutes can fulfill the role of a facilitator for Dual Credit courses, perhaps through additional training and an additional financial compensation.
- Strategies to ensure Cyber P-TECH students develop relationships with IHE professors to promote continuity, grace, and collaboration.
- Creative approaches to promote Cyber P-TECH for additional enrollments for outside the Sam Houston Attendance Zone.
- Create plans to ensure all students are College and Career Ready by the end of 11th grade.



THANK YOU



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zabbas1@saisd.net



<https://schools.saisd.net/page/006.cyber>



Cyber P-TECH USA

Sam Houston High School
4635 E. Houston Street
San Antonio, Texas 78220

