

Horizon High School P-TECH Cybersecurity Academy

Preparing Students for College, Careers, and the Cyber Workforce

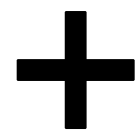
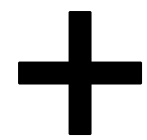
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CYBER SECURITY



What is P-Tech?



- P-TECH programs offer a **FREE**, no tuition, no book cost to students or families to earn a 3-in-1: High School Diploma + an Associates degree with El Paso Community College (EPCC) + an industry Certification with practicums through regional businesses.
- It is a work-based educational plan aligned with our regional workforce needs to guide students into high-demand, high-wage careers.



The Horizon High School P-TECH Cybersecurity Academy is a **College, Career, and Military Readiness (CCRSM)** program that allows students to earn a high school diploma **while completing college coursework, industry credentials, and career-aligned work-based learning** in cybersecurity and information technology.

Students graduate prepared for **postsecondary education, industry certification, and high-demand technology careers.**

Program Overview

Pathway: Cybersecurity

Endorsement: STEM

Career Cluster: Information Technology

**Degree Offered: Associate of Applied Science
(A.A.S.)**

College Partner: El Paso Community College

Industry Partner: Clint Independent School District

This academy operates as a School-Within-a-School P-TECH model, serving students in grades 9–12 through open enrollment.

Program of Study (Grades 9–12)

Students follow a structured Program of Study aligned to regional workforce demand and the Texas P-TECH Blueprint.

What students earn:

- High school diploma
- College credit toward an A.A.S. degree
- Industry-recognized credentials
- Hands-on cybersecurity experience

Horizon Cyber Security P-TECH Academy

High School & Associate of Applied Science (AAS) Pathway

Freshman Year (9th Grade)

- **HS Core:** English 1, Algebra 1 (or Algebra 2 if Alg 1 taken in MS), Biology, AP Human Geography, PE/Sport
- **College Courses:**
 - **ITSC 1301:** Intro to Computers (3 Credits)
 - **ITSW 1313:** Intro to Data Entry (3 Credits)
 - **ITCC 1314:** CCNA 1: Intro to Networks (3 Credits)
 - **ITSC 1305:** Intro to PC Operating Systems (3 Credits)
- **Yearly College Credit Total:** 12 Credits

Sophomore Year (10th Grade)

- **HS Core:** English 2, Algebra 2 (or Geometry), Chemistry, PE/Sport, Health, TSI Prep
- **College Courses:**
 - **ITCC 1344:** CCNA 2: Switching, Routing (3 Credits)
 - **ITCC 2320:** CCNA 3: Enterprise Networking (3 Credits)
 - **SPCH 1321:** Business & Professional Communication (3 Credits)
 - **ITSY 1300:** Fundamentals of Info Security (3 Credits)
 - **ITSY 2300:** Operating Systems (3 Credits)
- **Yearly College Credit Total:** 15 Credits



Junior Year (11th Grade)

- **HS Core:** Physics, PE/Sport/Health
- **Dual Credit/College Courses:**
 - **ENGL 1301 & 1302:** Composition 1 & 2 (6 Credits)
 - **MATH 1314 & 2412:** College Algebra & Pre-Calculus (6 Credits)
 - **HIST 1301 & 1302:** US History (6 Credits)
 - **ART 1301:** Art Appreciation (3 Credits)
 - **ITSY 2301:** Firewalls/Network Security (3 Credits)
 - **ITSE 1359:** Intro to Scripting (3 Credits)
 - **ITSC 1316:** Linux Install/Config (3 Credits)
 - **ITSC 2380:** Co-op Ed: Comp Info Sci I (3 Credits)
- **Yearly College Credit Total:** 24 Credits

Senior Year (12th Grade)

- **HS Core:** English 4, Environmental Systems, Economics, Career Prep
- **College Courses:**
 - **GOVT 2305:** American Government (3 Credits)
 - **ITSY 2330:** Intrusion Detection (3 Credits)
 - **ITSY 2343:** Computer System Forensics (3 Credits)
 - **ITSC 2381:** Co-op Ed: Comp Info Sci II (3 Credits)
- **Yearly College Credit Total:** 12 Credits

Program Summary

- **Total College Credits Earned:** 66 Credits
- **Partner Institutions:** Clint ISD & El Paso Community College

Associate of Applied Science - Program Map - 2024-2025

Science, Technology, Engineering, & Math



Cyber Security

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(915) 831-2056

dnajera5@epcc.edu

epcc.edu/Academics/Cybersecurity

Industry Partnerships & Work-Based Learning

The Cybersecurity Academy partners with **Clint ISD Technology Services** to provide authentic, career-connected learning.

Students participate in:

- Career days & guest speakers
- Job shadowing & worksite tours
- Mentorship with IT professionals
- Cybersecurity simulations & competitions
- Priority interviewing for qualified students

These experiences align with the **Tri-Agency Work-Based Learning Continuum.**



Grade	Focus	Experiences
9th	Career Awareness	Service learning, job simulations, worksite tours
10th	Career Exploration	Networking events, service learning, tours
11th	Career Preparation	Job shadowing, simulations, employer networking
12th	Career Transition	Informational interviews, internships, networking

Student Supports

To ensure student success, the academy provides layered academic, behavioral, and career supports.

Academic Supports

- Summer Bridge Program (June & July)
- Semester advising
- Tutoring and EPCC support services

Behavioral & Wellness Supports

- Weekly check-ins
- Individual advising
- Group circles

College & Career Supports

- Resume and interview preparation
- College readiness monitoring
- Career pathway advising

Regional Workforce Alignment

This program aligns with high-demand regional occupations, including:

- **Cybersecurity & Network Support**
- **Systems & Network Administration**
- **Software & Web Development**
- **Computer Systems Analysis**

Workforce alignment is supported through Workforce Solutions Borderplex .

Outcomes & Accountability

The Cybersecurity P-TECH Academy is committed to measurable student success.

Program goals include:

- 30% of students earn a certificate or associate degree by graduation**
- 50% earn an Industry-Based Certification**
- 75% persistence through program completion**

Outcomes are reviewed annually for continuous improvement.

Enrollment & Access

The Horizon HS P-TECH Cybersecurity Academy is open enrollment and actively recruits students who are:

- **First-generation college-bound**
- **Historically underrepresented in technology**
- **Interested in cybersecurity and IT careers**

Enrollment decisions are not based on test scores or GPA.

Leadership & Contacts

P-TECH School Leader

Dr. Edmond Martinez

P-TECH Counselor & Primary Contact

Mr. Saul Garcia

✉ saul.garcia@clint.net

P-TECH Horizon HS Teacher

Mr. Christopher Tarango

**Are you interested in
Computer Science?**

**Do you want a
rigorous schedule?**

**Do you want to have a job
and career right out of high
school?**

**Cyber security might be a
career for you!**

**Not only will you learn how
Cyber Hackers operate, but
you will also learn the
innovative technology to stop
them.**



CYBER SECURITY FACTS

**The salary range for an
Associate Cyber Security
Analyst job is from
\$62,094 to \$75,178 per
year in Texas.**

**According to the BLS,
cybersecurity and
information security
analysts earn an average
annual salary of \$124,740
per year (\$59.97 per hour).**



**Horizon High School and EPCC
have joined hands to bring this
program to you.**

**You will attend both campuses
during your high school career.**

**You will graduate with your high
school diploma and an
Associates Degree in Cyber
Security.**

**You will go straight from high
school to employment with
a great salary!**

Students must pass the TSIA2 before their Junior year.

The TSIA2, or Texas Success Initiative Assessment 2.0, is a placement test used by Texas public colleges and universities to determine if students are ready for college-level coursework in math, reading, and writing. High School Students must pass it in order to take Dual Credit Classes. (English 1301, Math 1314, USH, GOV, Speech, and ARTS 1301)

What happens when you get an “F” in college?

Academic Consequences:

Lowered GPA:

A failing grade (typically an F) usually doesn't earn any credit points and can significantly lower your overall GPA.

Retaking the Class:

For most classes, (not all of them), you'll need to retake the course to earn the required credits for graduation.

Academic Probation :

Colleges often place students on academic probation if their GPA falls 2.0 or if they fail a class.

Academic Suspension: 2nd failure of a class and you will face academic dismissal from the college and program.

Financial Consequences:

Loss of Financial Aid :

Failing a class can jeopardize your eligibility for scholarships, grants, or loans.