Tara High School's PTECH Program "CY-TECH Magnet Academy"

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PTECH Origins

P-TECH: Check out the video from the founding PTECH school in Brooklyn, NY.

The PTECH Program began in Brooklyn, New York in 2011. The 9-14 grade model means that two years of Associates Degree study (in Computer Science) is embedded in the high school experience. Students meet with industry mentors and train for "new collar" jobs fit for the 21st Century workforce. The above link leads to the PTECH website where details regarding how the model works and what students can expect to experience in the program can be found.

Our Approach

- The Planting Committee Traveled to Brooklyn, NY in February 2018. Upon return, the committee met over the course of three months to plan out course sequences and finalize an MOU.
- We began recruitment for students in May 2018 and hosted our Pre-Summer Bridge Program in June 2018.

Louisiana PTECH Teams and Principal Rashid Davis of PTECH Brooklyn

More on Approach

Photos from the May 2, 2018 Governor's Press Conference

- The PTECH program was approved by and introduced by the Governor on May 2, 2018.
- Tara High School went on to personalize the program and accept the Founding Members of the CY-TECH Academy in the Summer of 2018.

Origin of CY-TECH

CY-TECH is the result of a **combination** of the PTECH model and Tara's Cyber Engineering Program, enhanced by IBM and BRCC's partnership.

CYBER + PTECH =

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CY-TECH Academy

The Founding Members of CY-TECH cohort one visit BRCC, our post-secondary partner, in June 2018.

Why CY-TECH?

- Students who graduate from Tara High School's CY-TECH Program will earn both a high school diploma and an Associates Degree in a Computer Science. CY-TECH is part of the East Baton Rouge Parish School System and is open to all EBR students, at no cost to students and their families. Additionally, admission criteria for students include: that the student be on-grade level, complete an interest survey, participate in a parent/guardian interview, agree to be mentored by a pre-selected advisor, and commit to the summer bridge programs and college coursework.

What is CY-TECH Magnet Academy

The Cy-TECH Magnet Academy is a school-based program designed after Pathways in Technology Early College High School (P-TECH) model, which combines high school, college and the professional world. This school-within-a-school encompasses grades 9 to 14. With the promise that students in this six-year time frame, students earn not only a high school diploma, but also an Associate in Computer Science degree in Software Development from Baton Rouge Community College. Graduates will have the skills and experience to step into well-paying jobs in Information Technology (IT) and earn an opportunity to interview with IBM.

Our Post-Secondary Partner

- Baton Rouge Community College offers an Associate of Science degree in Computer Science that will provide students with the core computer science knowledge and skills that will prepare them to enter the workforce or transfer to a four-year academic institution.

Our Industry Partner

- At IBM, work is more than a job - it's a calling: To build. To design. To code. To consult. To think along with clients and sell. To make markets. To invent. To collaborate. Not just to do something better, but to attempt things you've never thought possible. To lead in this new era of technology and solve some of the world's most challenging problems.

- Assigned an IBM Liaison to the site and a mentor to each student.

Mentoring Events

October 2018

Cy-Tech Magnet Academy Newsletter

IBM

P-TECH

Would you like more P-TECH updates?

Follow Us on Twitter:
@CyTechAcademy
@PTECHNETWORK
@IBMVolunteers

Follow Us on Instagram:
@CyTechAcademy

Join our Slack Channel: #cytech

Feel free to contact Sarah:
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Sametime, Slack, Twitter

Please support our Thank America's Teachers Finalist!

Hello Cy-Tech Mentors!

Thank you all for such a great start to the school year! Our first cohort of students have officially completed their first semester of high school. We are so excited to share the remainder 2018-2019 school year with all of you!! Below, you'll see some key dates for Fall Mentor Activities.

Mentor Extravaganza #1

On Friday October 28th, IBM hosted its first ever Cy-Tech mentor event

Course Sequence for a Five Year Matriculation

Program Development Draft Scope and Sequence – Five Year Traditional Matriculation

SUBJECT		Year 1		Summer Bridge	Year 2		Summer	Year 3		Summer	Year 4		Summer	Year 5	
		Fall	Spring		Fall	Spring		Fall	Spring		Fall	Spring		Fall	Spring
English		English I *			English II*		bridge college course	English 1013	Englis h 1023	Bridge or college course or internship			internship or college course		
Math		Algebra 1*		Sophomore Seminar A	Algebra II			Geometry							
Science		Physical Science			Biology*[1]						BIO 1013 BIO 1011	BIO 1023 BIO 1021		CHEM 1123	CHEM 1133
SS		Human Geography AP			Civics			US History*[1]							
BRCC	Pre-Summer Bridge			SPCH 20 13	CSCI 1923 HIST 1113	CSCI 1933 Hum. Psychology (3)		MAT 1113 College Algebra CSCI 1943	MAT 1223: TRIG Arts 1023		Math 2115 (at site)	Math 2125 (at site)			
Foreign Lang		Virtual Workplace I			Virtual Workplace II			Spanish I			Spanish II				
Physical Education		PE/PE									PE	HEALTH			
Elective/ CATE		Intro. to Eng. Design						Cyber Science			CSCI 2003	CSCI 2103		CSCI 2903	
Workplace Learning/ Cyber Elective		Cyber Literacy I			Cyber Literacy II			Virtual Workplace I		Internship	Virtual Workplace II				

Our Areas of Focus

1. ACT Achievement
2. Workplace Skills
3. Mentorship
4. Internship

Pre-Summer Bridge Schedules and Skills

Day / Schedule	8:10-9:45a	9:45-10:00a	10:00-11:35a
Monday, June 4th	Holmes in E23: English Acceleration	Break	James in E21: Math Acceleration
Tuesday, June 5th	James in E21: Math Acceleration	Break	Holmes in E23: English Acceleration
Wednesday, June 6th	Holmes in E23: English Acceleration	Break	James in E21: Math Acceleration
Thursday, June 7th	James in E21: Math Acceleration	Break	Holmes in E23: Workplace Skills
Monday, June 11th	Holmes in E23: English Acceleration	Break	James in E21: Math Acceleration
Tuesday, June 12th	James in E21: Math Acceleration	Break	Holmes in E23: English Acceleration
Wednesday, June 13th	Holmes in E23: English Acceleration	Break	James in E21: Math Acceleration
Thursday, June 14th	James in E21: Workplace Skills	Break	Holmes in E23: English Acceleration
Monday, June 18th	Holmes in E23: English Acceleration	Break	James in E21: Math Acceleration
Tuesday, June 19th	James in E21: Math Acceleration	Break	Holmes in E23: English Acceleration
Wednesday, June 20th	Holmes in E23: English Acceleration	Break	James in E21: Math Acceleration
Thursday, June 21st	James in E21: Workplace Skills	Break	Holmes in E23: English Acceleration
Monday, June 25th	Holmes in E23: English Acceleration	Break	James in E21: Math Acceleration
Tuesday, June 26th	James in E21: Math Acceleration	Break	Holmes in E23: English Acceleration
Wednesday, June 27th	Holmes in E23: English Acceleration	Break	James in E21: Math Acceleration
Thursday, June 28th	James in E21: Math Acceleration	Break	Holmes in E23: Workplace Skills

Math

- Operations with integers and rational numbers
- Operations with algebraic expressions
- Solution of equations, inequalities, and word problems
- Algebraic operations
- Solutions of equations and inequalities
- Coordinate geometry
- Applications and other algebra topics
- Functions and trigonometry

- Identify main ideas
- Make inferences
- Distinguish claims and supporting evidence
- Logic of a simple sentence and other relationships between sentences

Workplace Curriculum

- Collaboration, Communication, Analytical Thinking, Self-Management, Leadership, Motivation, and Responsibility

2019
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January 29, 2019
Raising Cane's River Center
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