

Highlands P-TECH with St. Philip's College – MANUFACTURING – Class of 2025

Name: _____

Student ID# _____

Last Updated: _____

Foundation + Endorsement	Freshman 9 th Grade		Sophomore 10 th Grade		Junior 11 th Grade		Senior 12 th Grade	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
High School								
English English 1 (1) English 2 (1) English 3 (1) English 4 (1)	English 1 (.5)	English 1 (.5)	English 2 (.5)	English 2 (.5)	English 3 (.5)	English 3 (.5) English 1301 Freshman Comp1 (3 hours)	English 4 (.5)	English 4 (.5)
Math Algebra 1 (1) Geometry/Other (1) Algebra 2 (1) Pre-Calculus/Other (1)	Algebra 1 (.5) or Geometry (.5)	Algebra 1 (.5) or Geometry (.5)	Geometry (.5) or Algebraic Reasoning (.5)	Geometry (.5) or Algebraic Reasoning (.5)	Algebra 2 (.5)	Algebra 2 (.5) Math 1332 Contemporary Math (3-4 hours)	AQR / Stats (.5) or Pre-Calculus (.5)	AQR / Stats (.5) or Pre-Calculus (.5)
Science Biology (1) IPC (1) Chemistry (1) Physics (1)	Biology (.5)	Biology (.5)	Integrated Physics & Chemistry (.5)	Integrated Physics & Chemistry (.5)	Chemistry (.5)	Chemistry (.5)	Physics 1 (.5)	Physics 1 (.5) PHYS 1305 Introductory Physics (3 hours)
Social Studies W. Hist. (1) W. Geo. (1) U.S. History (1) Gov (.5) & Eco (.5)	World Geography (.5)	World Geography (.5)	World History (.5)	World History (.5)	US History I (.5)	US History II (.5)	Government I (.5)	Economics I (.5) ECON 1301 Intro to Economics (3 hours)
World Language, Fine Arts, & Phys Ed LOTE 1 (1) LOTE 2 (1) Fine Arts (1) PE (1)	Spanish I (.5) or ASL I (.5)	Spanish I (.5) or ASL I (.5)	Spanish II (.5) or ASL II (.5)	Spanish II (.5) or ASL II (.5)	Art I (.5)	Art I (.5) ARTS 1301 Appreciation (3 hours)	Physical Education (.5)	Physical Education (.5)
Career & Technical Education Years 1-4 (2) = (8 total)	Applied Mathematics for Tech Prof (1)	CETT 1409 DC-AC Circuits (4 hours -96)	CETT 1429 Solid State Devices (4 hours - 96)	ELMT 1305 Basic Fluid Power (3 hours -96)	RBTC 1305 Robotic Fundamentals (3 hours -96)	INTC 1357 AC/DC Motor Control (3 hours -96)	RBTC 1347 Electromechanica I Devices (3 hours -64)	INMT 2303 Pumps, Compressors, and Mechanical Drives (3 hours)
AVID & Electives AVID (4) / Electives (0) Total: 32 Credits	AVID (.5)	AVID (.5)	AVID (.5)	AVID (.5)	AVID (.5)	AVID (.5)	AVID (.5)	AVID (.5)
	No room for additional electives		No room for additional electives		No room for additional electives		No room for additional electives	

High School Courses in
Black

College Courses are in **Blue or Orange**. Contact hours for CTE courses vary – 96 contact hours = 1 credit per semester. Most years students will have 2 credits of CTE course built into schedule. **Level 1 Certificate = 4 Years**

Additional Requirements - Blue courses required for Associate Degree. **TSIA Alert** - students must meet **TSIA exam score requirements to take dual credit courses.**

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Highlands P-TECH can support up to 6 years of dual credit studies. Student who select the 5-6 year plan will be able to finish the full Associate Degree. The schedule for Years 5-6 will be based on student goals, college graduation plan, and internship availability and schedule.

Student would participate in all high school graduation ceremonies and receive a completion of high school requirements certificate. Student would remain enrolled in SAISD for Year 5 and 6 for funding and support and receive official diploma and Associate Degree upon completion of all coursework. If student chooses, they can exit the program at any time and receive their high school diploma if they have met all high school graduation requirements according to the state of Texas.

Year 5 – College ONLY		Year 6 – College ONLY	
Fall	Spring	Fall	Spring
INTC 2433 Instrumentation Systems Installation (4 hours)	CMPT 1349 Computer Networking Technology (3 hours)	College Course Recovery (if needed)	
RBTC 1301 Programmable Logic Controllers (3 hours)	INTC 2330 Instrumentation Systems Troubleshooting (3 hours)		
MCHN 1438 Basic Machine Shop I (4 hours)	RBTC 2339 Robotic Programming and Diagnostics (3 hours)		
Internship or Field Experience INTC 2288 Internship or EECT 2266 Practicum/Field Experience (2 hours) <i>*All internship placement is based on availability, student certifications, student professionalism skills, and successful application. Student may be required to provide own transportation. Students are not guaranteed internship placement and internships may be paid or unpaid.</i>			
Level 2 Certificate = 5 Years			
Associate Degree = 5-6 Years			

Date Reviewed/Updated: _____

Student: _____

Parent/Guardian: _____

Counselor/P-TECH Coordinator/IHE Partner: _____