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

me:			Student ID#			Last Updated:			
Foundation + Endorsement	Freshman 9 <sup>th</sup> Grade			Sophomore 10 <sup>th</sup> Grade		Junior 11 <sup>th</sup> Grade		Senior 12 <sup>th</sup> Grade	
High School	Fall		Spring	Fall	Spring	Fall	Spring	Fall	Spring
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 1301 Freshman Comp1 (3 hours)	English 3 (.5) English 1302 Freshman Comp2 (3 hours)	English 4 (.5)	English 4 (.5)
Math Algebra 1 (1) Geometry (1) Algebra 2 (1) Pre-Calculus (1) Calculus (1)	Algebra 2	1 (.5)	Algebra 1 (.5)	Geometry (.5) or Algebraic Reasoning (.5)	Geometry (.5) or Algebraic Reasoning (.5)	Algebra 2 DC <u>(1)</u> *Math 1414 College Algebra Pre-Cal Track (4 hours)	Pre-Calculus DC (1) *Math 2412 Pre-Calc (4 hours)	Calculus DC (.5) *Math 2413 Calculus (4 hours)	Calculus DC (.5)
Science Biology (1) IPC (1) Chemistry (1) Physics (1)	Biology (	.5)	Biology (.5)	Integrated Physics & Chemistry (.5)	Integrated Physics & Chemistry (.5)	Chemistry DC (.5)	Chemistry DC (.5) *CHEM 1411 Gen Chem 1 (4 hours)	Physics 1 (.5)	Physics 1 (.5) *PHYS 2425 University Physics (4 hours)
<u>Social Studies</u> W. Hist. or W. Geo.(1) U.S. History (1) Government (1) Economics (1)	World Geography		World Geography (.5)	World History (.5)	World History (.5)	US History DC (.5) HIST 1301 US History 1 (3 hours)	US History DC (.5) HIST 1302 US History 2 (3 hours)	Government I (.5) GOV 2306 Texas Government (3 hours) <u>AND</u>	Special Topics (.5) GOV 2305 Federal Government (3 hours) <u>AND</u>
World Language, Fine Arts & PE LOTE 1 (1) LOTE 2 (1)	Spanish I (. ASL I (.5		Spanish I (.5) or ASL I (.5)	Spanish II (.5) or ASL II (.5) AND/OR	Spanish II (.5) or ASL II (.5) AND/OR	(if needed) Art I (.5)	(if needed) Art I (.5) ARTS 1301 Appreciation (3 hours)	Economics (.5) ECON 2302 Principles of Microeconomics (3 hours)	Special Topics (.5)
Fine Arts (1) PE (1)	Physica Education	(.5)	Physical Education (.5)	Art I (.5)	Art I (.5) ARTS 1301 Appreciation (3 hours)				
<u>Career &amp; Technical</u> <u>Education</u> Years 1-3 (1) = (3 total) Year 4 (2)	Engineer Design 1		Engineering Design 1 (.5)	Robotics 1 (.5)	Robotics 1 (.5)	Engineering Design & Problem Solving (.5)	Engineering Design & Problem Solving (.5)	Engineering Design 2 DC (1) ENGR 1201 Intro to Engineering (2 hours - 34)	Engineering Design DC (1) ENGR 1304 or 230 Graphics/Programmir (3 hours - 96)
AVID & Electives	AVID (.5	5)	AVID (.5)	AVID (.5)	AVID (.5)	AVID (.5)	AVID (.5)	AVID (.5)	AVID (.5)
AVID (4) / Electives (0-3) <u>Total: 30-33 Credits</u>	Possible room for 1 elective		Possible room for 1 elective		Possible room for 1 elective		No room for electives		
Completed Courses in PurpleCollege Courses are iCurrent Courses in Green96 contact hours = 1		act hours = 1 cr	Blue or Orange. Contact hours for CTE courses vary – redit per semester. Engineering dual credit offerings n student degree plan and goals.			*MATH and SCIENCE are priority subjects for Engineering students. TSIA Alert - students must meet TSIA exam score requirements to take dual credit courses.			

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

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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 official high school diploma if they have met all high school graduation requirements according to the state of Texas.

	Year 6 – College ONLY			
Summer	Fall	Spring	Fall	
MATH 2412 Calculus 2 (4 credits) *Math 2412 may be required to ensure entry into Engineering degree program at University is seamless (goal is to accelerate Bachelor Degree timeline by approximately 1 year – varies by University and Engineering discipline/major)	Begin at University - Bachelor's Degree OR Continue at SPC to finish Associate Degree *Courses required to finish Associate Degree will vary based on student transcript and academic readiness	Continue Bachelor's Degree OR Associate Degree	Continue Bachelor's Degree OR Associate Degree	
	College Course Re	ecovery (if needed)		
	availability, student certifications, student proj	<b>cum in STEM (2 credits - HS only)</b> fessionalism skills, and successful application. St hip placement and internships may be paid or u		

Date Reviewed/Updated:\_\_\_\_\_

 Student:
 \_\_\_\_\_\_
 Parent/Guardian:
 \_\_\_\_\_\_

Counselor/P-TECH Coordinator/IHE Partner: