

Highlands P-TECH with St. Philip's College – WELDING – 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)	Principles of Manufacturing (1)	WLDG 1313 Blueprint Reading (3 hours -96)	WLDG 1425 Oxy-Fuel Welding (4 hours -96)	WLDG 1428 Shielded Metal Arc Welding (4 hours -96)	WLDG 1317 Layout and Fabrication (3 hours -96)	WLDG 1430 Gas Metal Arc Welding (4 hours -64)	WLDG 1434 Intro Gas Tungsten Arc (4 hours - 128)	
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. **Entry 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
WLDG 2451 Advanced Gas Tungsten Arc (4 hours)	WLDG 2453 Advanced Pipe Welding (4 hours)	College Course Recovery (if needed)	
WLDG 2452 Advanced Flux Core Arc (4 hours)	WLDG 2443 Advanced Shielded Metal Arc Welding (4 hours)		
	WLDG 2435 Advanced Layout and Fabrication (4 hours)		
College Course Recovery (if needed)			
Internship WLDG 2388 Internship – Welding Technology/Welder (3 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>			
Inert Gas GTAW/GMAW Welder (MSGW) Level 1 Certificate = 4.5 Years	Associate Degree = 5 Years		

Date Reviewed/Updated: _____

Student: _____

Parent/Guardian: _____

Counselor/P-TECH Coordinator/IHE Partner: _____