



Highlands P-TECH Welding Crosswalk Class of 2026



| Program of Study | IHE Partner | Expected Program Student Outcomes | |
|------------------|---|--|---|
| Welding | Alamo College District: St. Philip's College | Year 4: Entry-Level Certificate | Welding Entry-Level, Certificate I |
| | | Year 4-5: Level 1 Certificate | Inert Gas GTAW/GMAW Welder (MSGW) Structural/Pipe Layout |
| | | Year 5: Associate of Applied Science (A.A.S.) | Welder/Welding Technologist |

| Year / Grade Level | High School Course | | | | Post-Secondary Course | | |
|---|-----------------------|--|---------------------|---|--|----------------------|----------------------------------|
| | PEIMS Course # | High School Course Name | High School Credits | Texas Common Course Numbering System Number | College Course Name | College Credit Hours | TSI & Pre-requisite requirements |
| Year 0 / Grade 8 | | Summer Bridge/TSI Boot camp | | | | | |
| Total Year 0 High School Credits | | | 0.0 | Total Year 0 College Credit Hours | | | 0.0 |
| Year 1 / Grade 9 | 03220100 | English I or English I HON | 1.0 | | | | |
| Year 1 / Grade 9 | 03100500/ 03100700 | Algebra 1 or Geometry HON | 1.0 | | | | |
| Year 1 / Grade 9 | 03010200 | Biology or Biology HON | 1.0 | | | | |
| Year 1 / Grade 9 | 03340400 | World Geography or Human Geography AP | 1.0 | | | | |
| Year 1 / Grade 9 | 03440100/ 03980100 | LOTE- Spanish I/II or ASL I/II | 1.0 | | | | |
| Year 1 / Grade 9 | N1290001 | AVID I | 1.0 | | | | |
| Year 1 / Grade 9 | PES00052 | Elective/PE | 1.0 | | | | |
| Year 1 / Grade 9 | N1290050 | P-TECH College & Career Readiness | 1.0 | | | | |
| Total Year 1 High School Credits | | | 8.0 | Total Year 1 College Credit Hours | | | 0.0 |
| Year 2 / Grade 10 | 03220200 | English II or English II HON | 1.0 | | | | |
| Year 2 / Grade 10 | 03100700/ 03102540 | Geometry or Algebraic Reasoning for P-TECH | 1.0 | | | | |
| Year 2 / Grade 10 | 03060201 | Integrated Physics & Chemistry for P-TECH | 1.0 | | | | |
| Year 2 / Grade 10 | 03340400 | World History | 1.0 | | | | |
| Year 2 / Grade 10 | 03440200/ 03980200 | LOTE- Spanish II or ASL II | 1.0 | | | | |
| Year 2 / Grade 10 | N1290002 | AVID II | 1.0 | | | | |
| Year 2 / Grade 10 | 13032250 | Introduction to Welding DC | 1.0 | WLDG 1313 | Intro to Blueprint Reading for Welders | 3 | |
| | 13032650 | Diversified Manufacturing I DC | 1.0 | WLDG 1425 | Intro to Oxy-Fuel Welding and Cutting | 4 | |
| Total Year 2 High School Credits | | | 8.0 | Total Year 2 College Credit Hours | | | 7.0 |



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| | PEIMS Course # | High School Course Name | High School Credits | Texas Common Course Numbering System Number | College Course Name | College Credit Hours | TSI & Pre-requisite requirements |
| Year 3/ Grade 11 | 03220300 | English III DC | 1.0 | ENGL 1301 | Composition I | 3 | COLLEGE LEVEL ENGLISH |
| Year 3/ Grade 11 | 03100600 | Algebra II or Algebra II DC | 1.0 | MATH 1314/1332 | College Algebra or Contemporary Math | 3 | COLLEGE LEVEL MATH |
| Year 3/ Grade 11 | 03040000 | Chemistry | 1.0 | | | | |
| Year 3/ Grade 11 | 03340100 | US History | 1.0 | | | | |
| Year 3/ Grade 11 | 03500110/ 03155600 | Art or Music Appreciation DC | 1.0 | ARTS 1301/1306 | Art or Music Appreciation | 3 | None |
| Year 3/ Grade 11 | N1290030 | AVID III | 1.0 | | | | |
| Year 3/ Grade 11 | 13032300 | Welding 1 DC | 2.0 | WLDG 1428 | Introduction to Shielded Metal Arc Welding (SMAW) | 4 | Co-req. WLDG 1425 |
| | | | | WLDG 1317 | Introduction to Layout and Fabrication | 3 | Co-req. WLDG 1313 & WLDG 1428 |
| Total Year 3 High School Credits | | | 8.0 | Total Year 3 College Credit Hours | | | 16.0 |
| Year 4/ Grade 12 | 03220400 | English IV | 1.0 | | | | |
| Year 4/ Grade 12 | 03101100 | Pre-Calculus or other Math | 1.0 | | | | |
| Year 4/ Grade 12 | 03050000 | Physics I DC | 1.0 | PHYS 1305 | Introductory Physics | 3 | COLLEGE LEVEL MATH |
| Year 4/ Grade 12 | 03330100 & 03310300 | Government and Economics DC | 1.0 | ECON 1301 | Introduction to Economics | 3 | None |
| Year 4/ Grade 12 | N1290033 | AVID IV | 1.0 | | | | |
| Year 4/ Grade 12 | 13032410 | Welding II +Lab | 3.0 | WLDG 1430 | Intro to Gas Metal Arc Welding (GMAW) | 4 | Co-req WLDG 1425 |
| | | | | WLDG 1434 | Intro to Gas Tungsten Arc Welding (GTAW) | 4 | WLDG 1425 |
| Total Year 4 High School Credits | | | 8.0 | Total Year 4 College Credit Hours | | | 14.0 |
| Total High School Credits | | | 36.0 | Total College Credit Hours | | | 37.0 |
| High School Graduation Ceremony** | | | | Welding Entry-Level, Certificate I | | | |

| Year / Grade Level | High School Course | | | | Post-Secondary Course | | |
|---|--------------------|--|---------------------|--|-----------------------|----------------------|----------------------------------|
| | PEIMS Course # | High School Course Name | High School Credits | Texas Common Course Numbering System Number | College Course Name | College Credit Hours | TSI & Pre-requisite requirements |
| Year 5/ Grade 13 | | <i>TBD Student reports to college campus only.</i> | | Additional Welding Courses | | | |
| Year 5/ Grade 13 | | | | Core Subject Remediation (if needed) | | | |
| Total Year 4 High School Credits | | | 3.0* | Total Year 4 College Credit Hours | | | 23.0* |
| Total High School Credits | | | 39.0* | Total College Credit Hours | | | 60.0* |
| High School Diploma <i>**Student can elect to end participation anytime after Year 4 and receive diploma if all HS requirements have been met</i> | | | | Level 1-2 Certificates and/or A.A.S Degree <i>*Courses and outcomes vary by student interest and goals</i> | | | |