

Curriculum and Academic Rigor

CAREER CLUSTER - Manufacturing ENDORSEMENT - Business & Industry PATHWAY - Advanced Welding Technology

ACADEMIC AWARD - Advanced Welding Technology Level 2 Certificate

Year Grade Level	PEIMS Course #	High School Course Name	High School Credits	Course V Code	Semester	Texas Common Course Numbering System Number	College Course Name	College Hours	Taught by	Class Location
	03220107	English I	1	N/A	Y	None	None	0	ISD Staff	In-Person
	03100507	Algebra I	1	N/A	Y	None	None	0	ISD Staff	In-Person
	TBD	Science Credit	1	N/A	Y	None	None	0	ISD Staff	In-Person
	13011400	BIM I	1	V1	Y	None	None	0	ISD Staff	In-Person
	13032200	Principles of Manufacturing	1	V1	Y	None	None	0	ISD Staff	In-Person
	TBD	PE Credit	1	N/A	Y	None	None	0	ISD Staff	In-Person
	03440100	Spanish I	1	N/A	Y	None	None	0	ISD Staff	In-Person
	12701500	Project Based Research	1	V1	Y	STSU 0300	Student Development	0	ISD Staff	In-Person
Total Year 1 Grade 9			8					0		
	03220207	English II	1	N/A	Y	None	None	0	ISD Staff	
	03100707	Geometry	1	N/A	Y	None	None	0	ISD Staff	In-Person
	03220307	World History	1	N/A	Y	None	None	0	ISD Staff	In-Person
	TBD	Science Credit	1	N/A	Y	None	None	0	ISD Staff	In-Person
	03440200	Spanish II	1	N/A	Y	None	None	0	ISD Staff	In-Person
	13024300	Dollars & Sense	0.5	V1	A/B	None	None	0	ISD Staff	In-Person
	13009900	Professional Communications	0.5	V1	A/B	None	None	0	ISD Staff	In-Person
	13032250	Welding I	1	V2	A	WLDG 1421	Welding Fundamentals	4	IHE Staff	In-Person
	13032250	Welding I	1	V2	B	WLDG 1428	Intro to Shielded Metal Arc Welding	4	IHE Staff	In-Person
Total Year 2 Grade 10			8					8		
	03220307	English III	1	N/A	Y	None	None	0	ISD Staff	In-Person
	03340107	U.S. History	1	N/A	Y	None	None	0	ISD Staff	In-Person
	13037100	Principles of Technology	1	V1	Y	None	None	0	ISD Staff	In-Person
	TBD	Fine Arts Credit	1	N/A	Y	None	None	0	ISD Staff	In-Person
	13032250	Intro to Welding	1	V1 or V2	A	DFTG 1325 or WLDG 1409	Blueprint Reading & Sketch or Computer Aided Drafting	3 or 4	IHE Staff	In-Person
	12701410	Applied Mathematics for Technical Professions *	1	V1	A	TECM 1301	Industrial Mathematics	3	IHE Staff	In-Person
	13032400	Welding II	1	V2	B	MCHN 1438 or ELPT 1411 or HYDR 1409	Basic Machine Shop I or Basic Electrical Theory or Basic Fluid Power I	4	IHE Staff	In-Person
	13032400	Welding II	1	V1	B	WLDG 1337	Intro to Welding Metallurgy	3	IHE Staff	In-Person
Total Year 3 Grade 11			7					14		
	13011600	Business English **	1	V1	Y	None	None	0	ISD Staff	In-Person
	13018000	Financial Mathematics *	1	V1	Y	None	None	0	ISD Staff	In-Person
	TBD	Science Credit	1	N/A	Y	None	None	0	ISD Staff	In-Person
	03330100	Government	0.5	N/A	A/B	None	None	0	ISD Staff	In-Person
	03310300	Economics	0.5	N/A	A/B	None	None	0	ISD Staff	In-Person
	13033000	Practicum in Manufacturing I	1	V2	A	WLDG 1435	Intro to Pipe Welding	4	IHE Staff	In-Person
	13033000	Practicum in Manufacturing I	1	V2	A	WLDG 1457	Intermediate Shielded Metal Arc Welding	4	IHE Staff	In-Person

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	13033010	Practicum in Manufacturing II	1	V2	B	WLDG 2406	Intermediate Pipe Welding	4	IHE Staff	In-Person
	13033010	Practicum in Manufacturing II	1	V2	B	WLDG 2453	Advanced Pipe Welding	4	IHE Staff	In-Person
Total Year 4 Grade 12			8				16			
DEGREE PLAN			31				38			
YEAR 5						WLDG 2355	Advanced Metallurgy	3	IHE Staff	In-Person
						WLDG 2413	Intermediate Welding Using Multiple Processes	4	IHE Staff	In-Person
						WLDG 2443	Advanced Shielded Metal Arc Welding	4	IHE Staff	In-Person
DEGREE PLAN								49		

NOTES:

- * This course satisfies a math credit requirement for students on the Foundation High School Program
- ** This course satisfies an English credit requirement for students on the Foundation High School Program. However, it **may not** satisfy the 4th high school English requirement for some Colleges/Universities, nor NAACP. It is the student's responsibility to verify their own 4th English requirement, based on the post-secondary education plans.
- *** This course is not a requirement for the Angelina College program but is needed to fulfill the second 1/2 of the 4th English credit requirement for high school graduation