

WELDING



Why Reese Center Welding?

- Program provides students with knowledge and skills for entry level positions in the welding industry
- Students apply safety principles, fundamentals of welding, and cutting in everyday lab activities
- Industry certification opportunities: AWS D1.1 and NCCER – Welding I

FBISD CTE Career & Technical Education		MANUFACTURING PROGRAM		
		Welding Pathway		
#	Course	Credit	Grade	Location
1	Introduction to Welding <i>Concurrent enrollment in Welding I</i>	1.0	11-12	Reese Center*
2	Welding I <i>Prerequisite: Concurrent enrollment in Introduction to Welding</i>	2.0	11-12	Reese Center*
3	Welding II (Advanced CTE Course) <i>Prerequisite: Introduction to Welding and Welding I</i>	2.0	12	Reese Center*

* Student must apply, be accepted, and commit to the Welding program in order to take courses at Reese Center.

In **Introduction to Welding**, students acquire the fundamental knowledge and skills of welding. Students will learn to set up safe operation of gas welding and brazing, shielded metal arc welding, gas metal arc welding, gas tungsten arc welding, gas cutting and plasma cutting equipment.

In **Welding I**, students will further their understanding of welding safety, metallurgy, welding symbols, and welding techniques. They will utilize all processes, including Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW), Flux Core Arc Welding (FCAW) and plasma cutting, performed in all welding positions.

In **Welding II**, students will advance their skills in vertical and overhead welding positions. Students will also design and fabricate welding projects that encompasses all positions. Students will operate advanced welders, such as, tungsten insert gas welding (TIG), utilizing various base metals, filler metals, and flux coating.

