Rev Fall 2018

CFISD Welding I

Scope and Sequence

Course Description: Welding I provides the knowledge, skills, and technologies required for employment in metal technology systems. Students will develop knowledge and skills related to welding systems and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.

- Grades 10– 12
- No required prerequisite
- A letter of interest may be required if demand exceeds number of available slots.

TEKS

Cluster: *Manufacturing*

Endorsement: *Business & Industry*

- Meets advanced course requirement (Y / N): *No*
- Meets foundation requirement for math, science, fine arts, English, LOTE (Y/N): *No*

Industry Certifications offered (Y/N): *Yes*

Instructional Units	Pacing
1st Semester Basic Safety Oxy-fuel Cutting Basic math Introduction to Hand Tools Introduction to Power Tools SMAW Equipment and Set-up Introduction to Blueprints Electrodes and Selection Welding Positions / Welding Joints / Base Metal Weld Quality SMAW Beads and Fillet Welds	1st Grading Period 2nd Grading Period
2nd Semester SMAW Groove Welds 1G/2G/3G/4G SMAW Groove Welds with Backing SMAW Groove Welds without Backing SMAW Open V-butt welds SMAW Groove Welds	3rd Grading Period 4th Grading Period

Primary Instructional Materials: *CFISD Safety Curriculum, ICEV Multimedia LTD. Web Based curriculum*