

CFISD Manufacturing Engineering Technology K (ARC)

Course Description:

Scope and Sequence

In Manufacturing Engineering Technology I students will gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. Students will prepare for success in the global economy. The study of manufacturing engineering will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting.

- Grade 9
- Prerequisite: Algebra I and Enrollment in the CFISD ARC Academy
- A Lab fee will be required.

TEKS

Program of Study: Automation, Robotics & Computer Science

Cluster: STEM (*Science Technology Engineering and Mathematics*)

Endorsement: STEM (*Science Technology Engineering and Mathematics*)

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

Industry Certification/Credentials: *None*

Instructional Units	Pacing
1st Semester Safety in the Workplace Career Exploration and Employability <ul style="list-style-type: none"> ● Teamwork Computer aided Design (CAD) and Manufacturing Computer Numerical Control (CNC)	1 st Grading Pd 2 nd Grading Pd
2nd Semester Programmable Controls and Wiring Pneumatics and Hydraulics Thermal Science Quality Control Systems	3 rd Grading pd 4 th Grading Pd

Primary Instructional Materials: *Learnmate Online Modules, instructor lead learning*