CFISD Robotics I

Scope and Sequence

Course Description: Students will transfer academic skills to component designs in a project-based environment through implementation of the design process. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry.

- 1 credit
- Grades 9 12
- Required prerequisite: Principles of Applied Engineering
- Lab fee will be required

TEKS

Program of Study: Engineering Foundations

Cluster: Engineering
Endorsement: STEM

Meets advanced course requirement (Y/N): No

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

Industry Certification/Credentials: n/a

Instructional Units	Pacing
1 st Semester	
Safety	
History of Robotics and Automation	
Resource Career Paths	1 st Grading Pd
Professionalism and Employability Skills	
Automated systems	
Teamwork	2 nd Grading Pd
Technological Systems	
2 nd Semester	
Engineering principles and operations	
Teamwork	3 rd Grading pd
Tools and equipment used on robots	
Project Management	4 th Grading Pd

Primary Instructional Materials: REC Modules, Vex Cortex kits