

CFISD Robotics I Scope and Sequence

Course Description:

In Robotics I, 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
- **Lab fee will be required**

TEKS

Cluster: Science, Technology, Engineering and Mathematics

Endorsement: STEM

- Meets advanced course requirement (Y/N): N
- Meets foundation requirement for math, science, fine arts, English, LOTE (Y/N-area): N

Industry Certification/Credentials: n/a

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

Primary Instructional Materials: Learn-mate computer based curriculum, REC Modules, Vex Cortex kits