

CFISD Robotics II Scope and Sequence

Course Description:

In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a projectbased environment. Students will build prototypes and use software to test their designs. (1 Credit)

- Grades 10– 12
- Required Prerequisite Robotics I
- Lab fee will be required.

TEKS

Cluster: Science, Technology, Engineering and Mathematics

Endorsement: STEM

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

Industry Certification/Credentials:

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

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