Rev for Fall, 2022

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 project-based environment. Students will build prototypes and use software to test their designs. (1 Credit)

- Grades 10– 12
- Required Prerequisite Robotics I
- Completing this course satisfies a math credit required for graduation.
- Lab fee will be required.

TEKS

Program of Study: Robotics

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): Y

Industry Certification/Credentials: FANUC Certified Robot Operator 1

Instructional Units	Pacing
1st 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 FANUC Robotics	1st Grading PD 2nd Grading PD
2nd Semester Technological Systems Engineering principles and operations Automated systems Robotics competition FANUC Robotics	3rd Grading PD 4th Grading PD

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