

CFISD Robotics II K

Scope and Sequence

Endorsement: Business & Industry (or STEM with required math & science)

Cluster: Engineering or Manufacturing

Program of Study: Robotics Engineering or Robotics Manufacturing

Meets advanced course requirement? YES ▾

Meets foundation requirement for math, science, fine arts, English, LOTE? YES ▾

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.

TEKS link

- 1 credit
- Grades 10-12
- Lab supplies or fee may be required
- Required prerequisites: Robotics I

Industry Certification/Credential: SACA C101

TEA recognized IBC (to count toward program of study completion)? YES ▾

Instructional Units	Grading Period
Safety Careers in Robotics History of Robotics and Automation Project Management Robotics Mechanisms	N1 (fall)
Robotics Mechanisms & Sensors Robotics Competition	N2 (fall)
Technological Systems Engineering Principles and Automated Systems Operations	N3 (spring)
Robotics Competitions SACA Robotics	N4 (spring)

Primary Instructional Materials: REC Modules, Vex Cortex kits