ROBOTICS IN CUSD

A comprehensive overview of robotics across CUSD, highlighting everything from in-school curriculum and pathway courses to after-school clubs and competitive teams at school sites for the 2026-2027 school year.

		ELEMENTARY (K-6)	JUNIOR HIGH (7-8)	HIGH SCHOOL (9-12)
ACADEMIC COURSES		No academic robotics courses offered at the elementary level.	**ROBOTICS ELECTIVES (OPEN ENROLLMENT)** Students apply STEM principles, programming logic, and teamwork in this hands-on course. Using Lego Mindstorms, Spike, and VEX V5 kits, they build and code robots to solve complex problems and prepare for competitions. ***Offered at**: AJHS, ACPMS, BJHS, CCJHS, PJHS, SJHS, WJHS*	**CTE AUTOMATION & ROBOTICS (2-YEAR PROGRAM)** Pathway ends in *Introduction to Mechatronics* Industry Certification and consists of the following courses: • Honors Applied Engineering 1 • Honors Applied Engineering 2 • Introduction to Mechatronics • MIC (Mentorships, Internships, Careers) ***Offered at:** ACPHS, CCHS, HHS, PHS*
ROBOTICS CLUBS	**VEX®**	**VEX IQ® (NON-COMPETITIVE)** Elementary teams build and pilot snap-together robots to score points in friendly challenges—giving students a taste of competition without tournament pressure before a fun family showcase at the CUSD District Robotics Invitational. ***Participating Sites:** Auxier, Basha, Bologna, Conley, Hancock, Hartford, Hull, Shumway, Tarwater, Weinberg*	**VEX ROBOTICS® (COMPETITIVE)** Junior high teams design, build, and code custom metal robots using the same industrial-grade VEX V5 hardware as high schoolers. Competing in regional tournaments, students gain hands-on engineering experience and vie for spots at State and the VEX Robotics World Championship. ***Participating Sites**: ACPMS, BAMS, BJHS, KGA, PJHS, SJHS, WGA, WJHS*	**VEX ROBOTICS® (COMPETITIVE)** High school teams push the VEX V5 metal platform to its limits, engineering and coding advanced robots for high-intensity alliance matches. Teams compete at regional tournaments—often alongside top junior high contenders—to earn bids to State and the VEX Robotics World Championship. ***Participating Sites**: ACPHS, HHS*
	FIRST® ROBOTICS	**FIRST® LEGO® LEAGUE (COMPETITIVE)** Elementary students build autonomous LEGO® robots for themed missions and pitch Innovation Projects at ASU qualifiers and State. Note: 2026–2027 is likely the final season as funding concludes. ***Participating Sites**: Carlson, Patterson, Ryan, Shumway*	**FIRST® TECH (COMPETITIVE)** Junior High teams partner with mentors to design, build, and code robots using modular hardware and custom parts for a new game every September. Across three rapid design cycles per season, teams test and upgrade their robots at competitions while building STEM skills, confidence, and community outreach impact. ***Participating Sites:** CCJHS*	**FIRST® ROBOTICS (COMPETITIVE)** High school teams build and program industrial-grade robots from raw aluminum and motors under strict time and budget limits. Working alongside mentors, students compete in high-energy alliances while mastering real-world engineering, teamwork, and outreach. ***Participating Sites:** ACPMS, ACPHS, CCHS, HHS*

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