ROBOTICS

STUDENT VOICE

"You should sign up for Robotics because it can teach you really good skills that can help you later in life." ~ Noah

"You should sign up for Robotics because you get to design, create, and program robots." ~Sam

HS CONNECT

Shadle Park offers a variety of STEM courses:
- PLTW Computer Science Essentials
- PLTW Computer Science Principles- AP
- Computer Science- AP
- Web Design
- PLTW Cybersecurity

PARTICIPATION EXPECTATIONS

- Students use the computer to follow build instructions and program their robot.
- The difficulties of the build challenges increase throughout the semester. Students must apply what they have learned earlier in the semester to complete later builds.
- Projects should include structural components from each lesson but student's own creative ideas as well.
- Class is project based and attendance is important as the lessons build on one another.

COURSE DESCRIPTION

Automation and Robotics is a **one semester** class. The class uses the Design Process to build different devices that meet the needs of different clients. First you will learn about the different VEX parts and their uses. Next, you will learn about various mechanisms, how to build them and then incorporate them into your design. Throughout the semester you work on the computer and build with the parts.

WHY CHOOSE ROBOTICS?

You want to learn more about Robotics. You enjoy **building** mechanical systems and structures and **coding** them, then Robotics is for you!

Learn How To...

- Create a Concept Sketch and use it for your build.
- Build with different VEX Robotics parts.
- Program your build using VEX Code V5.
- Compete in a robot dragster race.
- Build a Sumo Bot and see how long it can stay in the ring!

FLETT RIVERHAWKS

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