

2019 Robotics and STEM Camps – July 29 – August 2

Registration Deadline: Monday, July 22nd

Hands-On Learning for Students K – 8th Grade

Sign-Up NOW to be the first students to experience the AWESOME new STEM Lab and Robotics Shop at Lutheran High School St. Charles. Students from Kindergarten through 8th grade can register for one of three different sessions that will engage and inspire them with Hands-On learning by building ROBOTS!

- **Intro to Robotics: K-3rd Grade, 8AM – 12Noon**
 - Students will explore designing, building and programming simple robots using the ***LEGO WeDo 2.0 System***
 - In design groups of 2-3, the students will apply basic problem-solving skills to address challenges that can be solved using LEGO bricks, motors, sensors, and mechanisms.
 - The design groups will be writing simple programs using computers provided at the camp to bring their robots to life.
 - This session will equip students to participate in [FIRST Lego League – Jr.](#) competitions in the upcoming school year.
 - Please register for the age-appropriate squad based on the school grade your child will be entering in Fall 2019:
 - **Blue Squad: Kindergarten – 1st Grade**
 - **Red Squad: 2nd Grade – 3rd Grade**

- **Intermediate Robotics: 4th – 6th Grade, 8AM – 12**
 - Students will explore designing, building and programming more complex robots using the ***LEGO EV3 System***
 - In design groups of 2-3, the students will apply problem-solving skills to address challenges that can be solved using LEGO bricks, motors, sensors, mechanisms, and the EV3 on-board computer process.
 - The design groups will be writing programs using computers provided at the camp to bring their robots to life.
 - This session will equip students to participate in [FIRST Lego League](#) competitions in the upcoming school year.

- **Advanced Robotics: 7th – 8th Grade, 1PM – 4PM**
 - Students will explore designing, building and programming more complex robots using the ***VEX EDR System***
 - In design groups of 3-4, the students will apply advanced problem-solving skills to address challenges that can be solved using VEX metal parts, motors, sensors, mechanisms, and the Cortex on-board computer process.
 - The design groups will be writing programs in the Robot-C text-based language and using computers provided at the camp to bring their robots to life.
 - This session will equip students to participate in [FIRST Tech Challenge](#) or [VEX Robotics](#) competitions in the upcoming school year