

# ROBOTICS TECH

## ***Course Description***

*An introductory course focused on robotic technologies and what it means to be living in an automated world. Students will gain an understanding of how robotic technologies impact the environment, society, and the economy. Students will develop a foundation in essential abilities and attitudes in connection with math and science skills that will in turn expand their opportunities in the world of automation.*

## **Strands**

1. Students will follow safety practices.
2. Students will be introduced to the history, environmental, societal, and economic impacts of robotics and mechatronics.
3. Students will be introduced to the hardware used to create Robots and other Mechatronics systems.
4. Students will be introduced to software design, coding structures, and software development.
5. Students will use a design process to create a computer program for a robot to perform a physical task.
6. Students will investigate career opportunities in robotics and the automated manufacturing industry.

