

Foundations of Robotics 8th grade

Mr. Wilson



Course Description: This high-tech engineering program is designed to prepare students to be knowledgeable about robotics and technology. All activities use hands-on experiences to motivate students to make connections between engineering concepts and real-world applications. Students discover how classroom learning is meaningful to real life as they develop innovative thinking, creative problem solving and strong leadership skills.

Students are challenged to use the robotics lab to design, apply materials, machines, instrumentation, processes, and technical concepts in an efficient and safe manner. It results in the application of mathematics and science concepts to technological systems in areas such as, but not limited to aeronautics, search and rescue, manufacturing, communications, transportation, and power and energy. Students are challenged to discover, create, solve problems, by constructing solutions using a variety of tools, machines, computer systems, materials, processes, and technological systems.

- All activities are organized around STEM.
- Is a high school credit course
- Provides opportunities for authentic problem solving.
- Helps students to understand math & science and its application in their daily lives.
- Students can join a highly competitive Robotics team and compete at national and international events.
- Robotics partners with industry professionals to provide students with career development & work-based learning opportunities.
- Explore other branches of engineering
- Is fun and engaging.

