This We Believe

Technology and Engineering Education:

- Offers unique opportunities to apply a broad spectrum of academic content through practical minds-on/hands-on applications that give this learning relevance. By using real-world tools, materials, and processes, students can derive meaning from concrete experiences that aid in understanding abstract ideas and concepts.

- Is the "T and E" of STEM (Science, Technology, Engineering, and Mathematics).

- Is an integral part of the general education learning experiences for all students at all grade levels and abilities to help them learn about and understand the technological world in which they live.

- Promotes technological literacy (i.e., the ability to use, manage, assess, and understand technology) for all, which will prepare people to live and work in a complex technological society.

- Encourages inquiry-based learning approaches (e.g., engineering design and problem-based learning) as cognitive tools for teaching and learning.

- Promotes college and career readiness and 21st Century career pathways by developing interest in the human-made world—its materials, products, and processes.

- Is derived from *Standards for Technological Literacy: Content for the Study of Technology* and embraces the engineering components of *Next Generation Science Standards (NGSS)*.

- Promotes creativity and real-world learning in the teaching of technology, innovation, design, and engineering.