

ENGINEERING PRINCIPLES 2

Course Description

The second in a sequence of “hands-on” courses that tie observations and concepts common to a variety of different engineering disciplines in order to develop a better understanding of basic math and science principles used in engineering. By utilizing problem-solving skills in the laboratory environment, students will develop skills and attitudes that impact and expand occupational opportunities.

This is a foundation course in the engineering pathway.

Strands

1. Students will follow safety practices.
2. Students will investigate career opportunities within the world of Engineering.
3. Students will understand and develop positive work ethics, communication skills, and leadership skills.
4. Students will identify the qualities of successful engineering design, recognize its role in society, and develop projects using an engineering design process.
5. Students will understand ways in which Electrical Engineering can enhance health and well-being of individuals
6. Students will understand ways in which Chemical Engineering can enhance the lives of individuals.
7. Students will understand ways in which Materials Science can enhance health and well-being of individuals.
8. Students will understand ways in which Mechanical Engineering can enhance the lives of individuals.

