

## **Principles of STEM and Applied Engineering**

**Course:** 0800

**TEDS:** 13036200

**High School Credit:** 1

**Grade Level:** 7th Grade Only

Principles of STEM and Applied Engineering is a comprehensive middle school course that delves into the diverse and interconnected fields of science, technology, engineering, and mathematics (STEM). Through hands-on projects and assignments, students develop essential engineering communication skills, including graphics, modeling, and presentations, fostering creativity, problem-solving abilities, and collaborative skills. This dynamic course provides a holistic understanding of STEM disciplines and offers practical experience in working on design teams to create innovative products and systems. By engaging with real-world challenges, students gain valuable insights into various engineering fields, empowering them to make informed career decisions and excel in the ever-evolving world of STEM. Students who successfully complete this course will receive **high school credit**.

## **Introduction to Aerospace Engineering and Aviation**

**Course:** 0802

**TEDS:** N1303760

**High School Credit:** 1

**Grade Level:** 8th Grade Only

The Engineering Essentials course introduces students to engineering concepts that are applicable across multiple engineering and other disciplines and empowers them to build technical skills using a variety of engineering tools. Students will learn and apply the engineering design process to develop mechanical, electronic, process, and logistical solutions to relevant problems across a variety of industry sectors, including health care, public service, and product development and manufacturing. This class will help a student to learn how to solve real-world problems while working collaboratively with a team to find a solution. The Modeling process will detail your ideas for a solution and detail a comprehensive plan of action. Alternate solutions will be considered to come to the best solution. During the process, the student will explore experimental design and testing, CAD and drafting, Geographic Information Systems, systems thinking, project management, modeling computational and analytical skills, and electronics. Students who successfully complete this course will receive high school credit.

## **Advisory – Project-Based Research**

**Course:** 08555

**TEDS:** 12701500

**High School Credit:** 1

**Grade Level:** 8th Grade Only

Immerse yourself in the exciting world of career exploration through our innovative middle school course, designed in alignment with Texas House Bill 5. This dynamic program allows students to delve into their passions and future careers, engaging in hands-on projects and real-world research. With a focus on scientific methods, problem-solving, and in-depth exploration, students navigate diverse professions and investigate high school programs of study, especially in Career and Technical Education, tailored to their interests. Our course satisfies the requirements and updates outlined in Texas House Bill 5, ensuring students are well-prepared for their future endeavors. Hone your presentation skills, uncover hidden talents, and gain practical knowledge, all while preparing for a successful future.

**Digital Media****Course:** 0370**TEDS:** 13027800**High School Credit:** 1**Grade Level:** 7th or 8th Grade

In Digital Media, students will analyze and assess current and emerging technologies while designing and creating multimedia projects that address customer needs and resolve a problem. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking, and apply them to the IT environment.

**Entrepreneurship****(VIRTUAL CLASS)****Course:** Z0822X**TEDS:** 13034400**High School Credit:** 1**Grade Level:** 8th Grade Only

Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining the feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students understand the capital required, the return on investment desired, and the profit potential. This course is only available as an online course through the Keller ISD Virtual Learning program. *Students who complete this course receive high school credit for the graduation requirement of the 21st-century skill. **Students earn 1 credit for this course, but the course is taught in 1 semester.***

## **Interpersonal Studies**

***(VIRTUAL CLASS)***

**Course:** Z8823X

**TEDS:** 13024400

**High School Credit:** .5

**Grade Level:** 8th Grade Only

Interpersonal Studies examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services. *This course is only available as an online course through the Keller ISD Virtual Learning program.*

## **Lifetime Nutrition and Wellness**

***(VIRTUAL CLASS)***

**Course:** Z0825X

**TEDS:** 13024500

**High School Credit:** .5

**Grade Level:** 8th Grade Only

This laboratory course allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to human services. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. *This course is only available as an online course through the Keller ISD Virtual Learning program. Students who successfully complete this course receive high school credit.*

## **Professional Communications**

***(VIRTUAL CLASS)***

**Course:** Z0465X

**TEDS:** 13009900

**High School Credit:** .5

**Grade Level:** 8th Grade Only

Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this text, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research. *This course is only available as an online course through the Keller ISD Virtual Learning program. Students who complete this course receive high school credit for the graduation requirement of the 21st-century skill.*

## **Principles of Business, Marketing, and Finance**

***(VIRTUAL CLASS)***

**Course:** Z080X

**TEDS:** 13011200

**High School Credit:** 1

**Grade Level:** 8th Grade Only

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economics and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance. *This course is only available as an online course through the Keller ISD Virtual Learning program. Students who successfully complete this course receive high school credit.*

## **Principles of Health Science**

***(VIRTUAL CLASS)***

**Course:** Z081X

**TEDS:** 13020200

**High School Credit:** 1

**Grade Level:** 8th Grade Only

The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. *This course is only available as an online course through the Keller ISD Virtual Learning program. Students who successfully complete this course receive high school credit.*

## **Touch System Data Entry**

***(VIRTUAL CLASS)***

**Course:** Z0828X

**TEDS:** 13011300

**High School Credit:** .5

**Grade Level:** 8th Grade Only

*In Touch System Data Entry, students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will need to apply touch system data entry for the production of business documents.*