5th and 6th Grade Course Options. These options are available to students enrolled in 5th or 6th grade during the 2019-2020 school year.

E1. CSI – Patricia Spiess
Crime Scene Investigation-CSI: Students will develop their detective skills using math, science, technology, and engineering to solve criminal cases! Students will learn about crime scene basics, eye witness accounts, blood splatter analysis, and even conduct their own DNA extractions! Studying foot prints, finger printing, handwriting, lipstick analysis, and entomology, students will enhance their critical thinking skills and apply it to real world situations!

E2. Story Makers – Kim Belanger
Tell your epic story as a stop motion filmmaker. You’ll learn from architects and designers from KSU’s College of Architecture, Planning, & Design why telling your story is important, then create a movie of one of your stories using stop motion animation.
Required devices are one of the following: iPad, smart phone (iOS or Android), or computer (Mac or Windows).

E4. Exploring Renewable Energy – Makinzie Hogan
Let’s go on the journey to explore different renewable energies that are being used in our world. We will take virtual tours of wind turbine plants, solar plants, and nuclear power plants. We will create iMovies or Keynotes about the various different types of renewable energies and determine which renewable energy is the best. We will finish the week off by constructing a solar oven to make S’Mores.

E5. Math in the Real World – Gregg Tanner
Students will solve real world math problems in the areas of cooking, kicking a field goal, world travel and more. Mathematics is very important in strategic situations and this even includes NASA and calculating spaceships flying to distant planets. Math in the real world will be an exciting discovery of numbers and how they rule the world.

E6. Game Theory – Angie Messer
Students will actively participate in hands-on activities where they will assemble, problem-solve, and calculate mathematical concepts through games and puzzles. Students will be engaged with the activities and also will learn to work collaboratively in groups.

E10. Give your writing STEM – Jenny Birk
Writing is a crucial life skill that can also be fun! During this session students will be encouraged to explore creative writing and to discover the link between writing and future steam careers will create ownership and interest in writing. We will investigate the role of blogs, vlogs and other media inspired writing outlets.

E11. Flight Engineering – Erin Lopez
Join me for an engineering adventure where you can build your own planes and rockets at home. We will go on virtual fieldtrips and conduct experiments, all while learning about the science that makes flight possible. Students will need an internet connected device with a camera to participate in this camp.
E15. 3D Printing for Beginners! – Erica Buchanan
There are so many uses for 3D printing in today’s world, and now kids can get in on the action, too! Students will spend the week exploring the basics of 3D designing and printing. They will have three options of projects to choose from that range from simple to complex design. At the end of the week their design will be printed! Distribution of the prints may vary depending on location. Project Options include embossed name/word keychain, small vessel or container, or small character figurine.

M.U.S.I.C. (Music Using STEM Is Cool): What makes your movie, podcast, or slide show even better? Your own music! Get ideas and music coaching to produce your own background music. Find out how to use your own instrument or voice to create music for your own movie, podcast, or slide show. Then get help as you compose and record your own song. You’ll be able to write and record tracks that you can use for your upcoming tech creations and save to your personal playlist. You will need: 1) an instrument or voice that you feel comfortable using (guitar and keyboard instruments are easiest for chords, Garage Band can be used to add chords to accompany a solo instrument); 2) an internet-connected device for receiving online notes, recording sound files, and videoconferencing (via Zoom, Skype, or Teams). USD383 students may check-out a guitar and device from the district.

E17. Thinking Through Games I– Brad Burenheide and Meshell Thornley
In this class students will analyze the intellectual skills used when playing games. This year we will delve into board games and video games alike, but the theory will be the same. The class aims to expose students to games they have never played and cause them to think differently the next time they play their usual games. There are two levels of this class. The second level builds upon the knowledge gained in the first level.

E18. Science of Food – Shanda Montgomery
Cooking is loaded with hidden science, just lurking in the delicious shadows. Uncover the biology, chemistry, and physics that make our food so fantastic! Explore the science behind the food we eat, experiment with techniques to refine recipes and eat the data! My hypothesis is this class will be mouth-wateringly magical!

E19. Literacy, Repurposing Books – Tracy Perez
This fall, K-State freshmen will read “The Boy Who Harnessed the Wind” by William Kamkwamba and Bryan Mealer. This book tells the story of 14-year-old William in Malawi, who brings electricity and pump irrigation water to his family farm by reading library books and scavenging parts from junk. If your child likes to read, build, or lose themselves in a book at the library, this class is for them. Students will read excerpts of the young readers edition of the book and make connections with activities that allow them to problem solve, create, and explore.

E20. Survivor! – Snyder/Brunson
When the town shuts down, learn how to fend for yourself! Students will learn outdoor survival and camping skills including map & compass, knot tying, proper campfire care and techniques, how to protect your food from wildlife, and other essential outdoor skills. Learn fun and creative ways to explore and enjoy the outdoors during troubled times (or anytime)!