

Summer

# STEM

*A Summer of Learning Experiences*



Summer 2022

**KANSAS STATE**  
UNIVERSITY.

College of Education



## Inside

### Lots of Learning

Middle schoolers and COE Core Teaching Skills undergraduates spent three intensive weeks learning about STEM and the art and science of teaching.

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### Summer Showcase

Parents and community members joined in a celebration of STEM students and their creations.

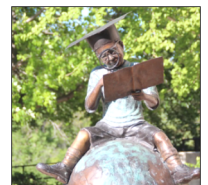
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## It's Good to be Home: STEM Camp Returns to Campus

The STEM Summer Institute has returned home!

COVID forced a summer of virtual learning in 2020 and then summer 2021 we were graciously welcomed to Bluemont Elementary, but 2022 was a homecoming of sorts. Summer STEM returned to campus—and specifically, the College of Education's home in Bluemont Hall, for Year No. 12.

This summer, more than 275 middle schoolers and approximately 40 pre-service teachers enlivened campus for three weeks of energetic learning—from drones to crocheting to math art. *(Check out the complete list of topics on Page 3.)* It was held June 6-June 23, with a Showcase on June 24.



Leading classes were some of USD 383's best teachers, as well as K-State faculty from the College of Education and across campus.

It was an amazing homecoming for Summer STEM!



Who knew learning  
could be so much

**FUN?**

## Summer STEM Provides Special Opportunities for Middle Schoolers and Future Teachers

We say it all the time, but Summer STEM is special. And Summer 2022 proved to have its own unique elements.

First of all, the camp makes use of the free breakfasts provided by USD 383, with students having breakfast at various school sites and then riding the bus to campus to start each day.

This summer, students from Ukraine living in Manhattan as well as a group of students who receive support from McKinney-Vento funds joined the fun, enjoying the classes side by side USD 383 students. And the nice thing is that everyone was welcomed—by their peers and by their teachers.

K-State students also had some opportunities to experience teaching—the *real* stuff. They not only helped teach the

classes—and most took over the teaching with the veteran teachers providing support—but they also had the option to sign up for bus duty. That meant meeting students at the various school sites and riding the bus with them to campus.

A June 10 field trip to Fort Riley not only provided some time to explore the fort and for the K-Staters to experience supervising students on the trip.

Important note: The K-Staters were not *required* to join the field trip, since it was beyond class requirements—but the majority of them volunteered.

And, finally, to wrap up Summer STEM, the future teachers got another one of those real experiences—loading 275 middle schoolers onto buses in a rain storm and sending them on their way.



## Class Topics

- Hollywood Science
- Thinking Through Games
- Robotics 1 & 2
- CSI
- Vet Med
- Learn to Crochet
- Science of Food
- DJ Music Studio
- Data Detectives and Crop Scene Investigation
- Explore Manhattan
- Exploring the Beauty of Mathematical Art
- Rube Goldberg Machines
- Treehouse Architecture
- Dream Green!
- Geology Rocks!
- Tiny Houses/Big Learning!
- Drones & Coding of Spheros
- Simulation Station
- Lego Robotics
- Crash Course—Scene of an Accident
- Digital Media/Journalism
- Manhattan Scavenger
- 3-D Printing
- True Colors: Pop Art Photography
- Engineering Design
- Architectural Drafting
- Surrounded by STEM
- Take Apart, Reimagine, Remake
- Disney Dream Designs



# Our mission: Learning that is Engaging

The topics may vary from class to class, but keeping students involved in hands-on learning shines through Summer STEM

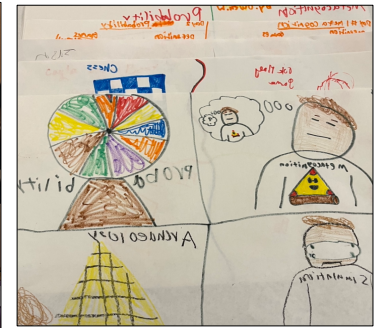
As the list to the left shows, we provided 29 different topics as options for the students. Organized by grade level, we offered classes for 5<sup>th</sup> and 6<sup>th</sup> graders and a set of options for 7<sup>th</sup> and 8<sup>th</sup> graders.

They toured campus to find examples of STEM, flew drones, created stop-motion animation, crocheted, experienced a new lab in Hale Library where they could tear things apart and remake them, to name just a few. And through all the fun, students were learning and becoming more aware of STEM-related careers.



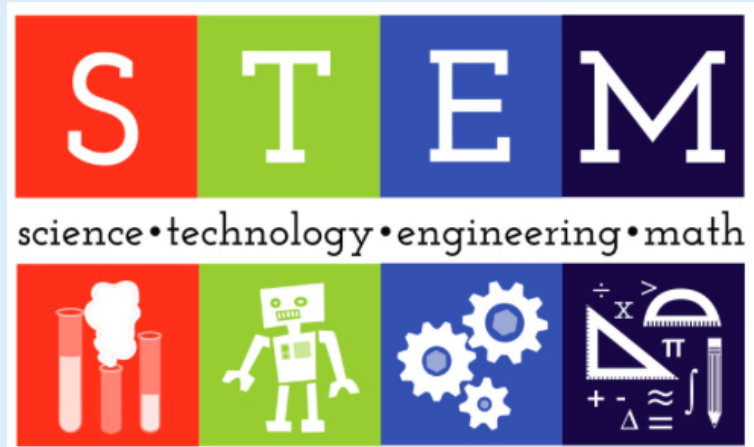
# Showcase

Approximately 250 students, family members, community members and education leaders attended the Summer STEM Showcase in the K-State Student Union on June 24.



# Sights Around *STEM*





## Want to Make a Difference?

If you think Summer STEM sounds like your kind of fun, please reach out to us to see how you can assist. You can make a difference by funding a student scholarship or class resources, supporting a specific class topic, or just spreading the word to reach more students.

**Please contact:**

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or

Dr. Lori Goodson, [lagoodson@ksu.edu](mailto:lagoodson@ksu.edu)

Be sure to visit our [website](#)

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