



STEM ACADEMY



CAMP INNOVATION PATHWAYS TO COLLEGE PROGRAM

GRADES 4-6

SUMMER 2019

STEM ACADEMY

Monday, June 17, 9:00 AM – 1:00 PM

NKU's Camp Innovation **STEM Academy** for students in grades 4-6 in the fall of 2019 is filled with intensive and interactive experiential learning in science, technology, health, engineering, and mathematics (STEM).

The **STEM Academy** program is designed to allow students to explore STEM with their peers by engaging with content experts and developing valuable leadership and decision-making skills.

DATE AND LOCATION

- Camp Innovation STEM Academy will be held Monday, June 17
- The Academy will take place from 9:00 AM – 1:00 PM at Northern Kentucky University

WHAT MAKES NKU'S CAMP INNOVATION ACADEMY PROGRAMS EXCEPTIONAL?

- **STEM Career Pathways** incorporated throughout the day
- Emphasis on **intellectual challenge** through critical and creative thinking
- Environment that values **creativity, diversity, entrepreneurship, and achievement**
- Personal attention from **talented and caring teachers**. All teachers receive specialized training and ongoing support to help them meet the unique needs of participating youth.
- Small class sizes for **caring, personalized, and differentiated instruction**
- Our program attracts a diverse group of students from all over the area! You will find **friends** who share your interests and love of learning!
- Classes are **fun!** Classes are interesting and interactive with a focus on transdisciplinary learning and technology integration.
- NKU's Camp Innovation Program is endorsed by the Northern Kentucky Association for Gifted Education.



ACADEMY SCHEDULE:

8:45 - 9:00	Registration
9:00 - 9:45	Welcoming and Opening Activity—What is STEM?
9:45 - 10:30	Robotics Challenge
10:30 - 11:00	STEM Mystery Breakout
11:00 - 11:30	Lunch Break (Boxed Lunch--Classic Turkey Breast & Provolone Cheese on a Pretzel Roll with chips, whole fruit, cookie, and drink)
11:30 - 12:15	Bridge Engineering Competition
12:15 - 1:00	Solving a Forensic Science Mystery

WORKSHOP DESCRIPTION:

What is STEM? In this interactive opening activity, we will dive into the fields of science, technology, engineering, and mathematics to explore careers and how STEM is in our everyday lives.

Robotics Exploration In this hands-on session, we will explore coding and programming structures while using Ozobots. Learn practical applications of our new knowledge and discover how the bots at companies like Toyota and Amazon deliver goods and make for an improved workplace. Improve your problem solving, critical thinking, research skills, and collaborate with others in this amazing session

STEM Mystery Breakout in this session of “who dunnit?”, you will challenge your STEM problem solving skills to decipher the clues. You will work with your team to solve the mystery by unlocking a series of word, directional and number locks that are linked to challenges. Communication, teamwork, critical and creative thinking will be your tools for success.

Bridge Engineering Competition We’ve all heard about the need for a new bridge connecting Kentucky and Ohio. Join this session to learn more about bridges and engineering. We will describe types of bridges and their differences. We will build bridges that will withstand building requirements. We will begin by asking questions like “what is a bridge? And “What are the types of bridges, and how are they different?” After construction is complete we will test each of our bridges. Then we will reflect and rebuild on how to make stronger bridges. Join us in this real-world engineering exploration!

Solving a Forensic Science Mystery your skills are needed to solve this campus crime scene mystery. Use your forensic skills and processes to help save the day and put this crime scene case to rest.

REGISTRATION

- Registration is available before Friday, May 31, 2019, at <http://gifted.nku.edu> or via phone 859-572-5600.
- **Registration is limited and is first-come, first-served. To ensure participation register early.**
- **Tuition \$50.** Need-based scholarships are available.
- Please include any food allergies or needs during the registration.

- Students will receive an emailed confirmation once registered.
- There will be an additional \$30 processing fee for registrations received after May 31.
- The Camp Innovation: Pathways to College Academy Program reserves the right to close or cancel prior to the class meeting or make any necessary schedule changes.

REFUNDS

- Full refunds, minus a \$30 processing fee, may be given prior to Friday, May 31, 2019.
- No refunds will be made after May 31, 2019.
- Any child whose behavior disrupts the learning of others will be discontinued as a participant in the Camp Innovation Academy Program. There will be no refund of fees under these conditions.

EMERGENCY CLOSINGS

- In case of inclement weather or any unforeseen emergency, the Camp Innovation Academy Program reserves the right to cancel.
- In the event of inclement weather, we will send an email to all participants. Refer to <http://gifted.nku.edu> for program and weather-related announcements.

PUBLICITY AND MEDIA WAIVER:

- All students enrolled in Camp Innovation Academy Program and their parents/guardians grant permission to capture and/or record the participant's name, image, likeness, persona, photograph, or voice, in any media and/or technology now known or later developed. Such use of name, image, likeness, persona, photograph, or voice can be used throughout the world for educational, commercial, trade, or any other lawful purpose.

