

# NKU | INSTITUTE FOR Talent Development & Gifted Studies

## CAMP INNOVATION: PATHWAYS TO COLLEGE FOR GIFTED AND TALENTED YOUTH GRADES K-8

Spring 2018

Saturdays, March 10-24, 2018, 9:00 – 11:30 am

Northern Kentucky University's Camp Innovation Pathways to College Program is a forward-thinking program designed for high potential youth to discover and explore advanced content and engaged learning. All classes provide the opportunity for students to share interests with other children while exploring pathways to intellectual development, academic enhancement, career exploration, and creative artistic fulfillment.

Camp Innovation offers transdisciplinary courses infusing entrepreneurship, science, mathematics, social studies, technology, visual and performing arts, and original interdisciplinary studies.

*We encourage students to choose their own classes on a first-come first-served basis.*

### DATES AND LOCATION

- Spring 2018 semester courses will be held Saturdays, March 10 through 24
- Sessions meet from 9:00 – 11:30 AM
- Classes are held in Landrum Hall on the beautiful campus of Northern Kentucky University

### WHAT MAKES NKU'S CAMP INNOVATION PROGRAM EXCEPTIONAL?

- **Career exploration pathways** incorporated into every class
- 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 gifted youth.
- Small class sizes for **caring, personalized, and differentiated instruction**
- Camp Innovation attracts a diverse group of gifted, talented and creative people 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.
- Parents are invited to attend our **FREE Parent Place** workshops for coffee, networking, and stimulating conversations.

find  
your  
Spark



## REGISTRATION

- Registration is available online: <http://gifted.nku.edu/youth> or via phone: 859-572-5600 before Friday, March 2, 2018.
- **Tuition \$100** (Need-based financial scholarships are available. For further information, call 859-572-5600.)
- There will be an additional \$30 processing fee for registrations received after March 2, 2018.
- Students are placed in classes on a first-come, first-served basis, and many classes will fill before the application deadline. ***For the best selection of classes, apply early.***
- Students will receive an emailed confirmation once registered.
- The Camp Innovation: Pathways to College Program reserves the right to close or cancel prior to the first class meeting or make any necessary schedule changes. Any changes will be communicated via email to the address provided when registering.

## PARENT PLACE WORKSHOPS

- Parents and interested community members are welcome to attend our FREE Parent Place workshops offered each week during the Camp Innovation Program.

## REFUNDS

- Full refunds, minus a \$30 processing fee, may be given prior to March 2, 2018.
- No refunds will be made after March 2, 2018.
- Any child whose behavior disrupts the learning of others will be discontinued as a participant in the Camp Innovation Pathways to College 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 Pathways to College Program reserves the right to cancel a class without make-up class or refund.
- In the event of inclement weather, the program director will send an email to all participants. Also refer to the NKU webpage <http://nku.edu> for weather-related announcements.

## PUBLICITY AND MEDIA WAIVER

- All students enrolled in the Camp Innovation Pathways to College 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 her name, image, likeness, persona, photograph, or voice can be used throughout the world for educational, commercial, trade, or any other lawful purpose.



**NKU's Camp Innovation Pathways to College Program is endorsed by the Northern Kentucky Association for Gifted Education**



# SPRING 2018 CAMP INNOVATION PATHWAYS TO COLLEGE COURSES:

## BUILDERS (GRADES K-3)



### **Archaeology Explorations, Grades K-3, Materials Fee \$10**

Are you fascinated with the past and learning about different civilizations? Perhaps you like to dig in the dirt or find things that are lost? Put pieces together? Figure out stories from clues? Learn about the past? These are all things archaeologists do—maybe you could be one too! Join us for dirt-digging, mystery-solving fun!

### **Artists Exploring Nature, Grades K-3, Materials Fee \$10**

We will explore art through nature elements such as painted rocks, landscapes and more! We will explore all different kinds of unique ways to create art of your favorite natural elements! Join us for this environmental adventure painting, drawing, collages, mixed media and more!

### **Astronauts in Training, Grades K-3, Materials Fee \$15**

Have you ever wanted to journey into outer space and explore the planets, constellations, stars, supernovas, white holes, and comets? Do you want to experience a black hole first hand or see what really happens when asteroids hit a planet? Would you like to explore the moon, creating your own working moon rover? Then come take this exciting journey through outer space with us. Each week through hands-on activities, experiments and games we will learn what a thrilling place outer space really is. You'll be on the edge of your seat on this wild ride through outer space. ***This class will feature a visit to NKU's Haile Digital Planetarium.***

### **Champion Chess Masters in Training, Grades 2-8, Materials Fee \$25**

Are you a chess beginner or perhaps you are ready to take your chess playing skills to the next level? In this class, you will learn all about the world of chess and strategies that you can use to impress others. You will learn how to compete in tournament style chess competitions while expanding your critical thinking skills. These strategies will surely put you on the pathway to Grand Master status. ***With the materials fee, you will receive an official tournament chess set.***

### **Grossologists: The Science Behind the Ick!, Grades K-3, Materials Fee \$15**

Are you ready to get slimy? Are you ready to get your hands in goo? In this fun class, we will explore a variety of science topics through hands-on, messy experiments. You will follow the scientific method while learning major science concepts. We will expand our thinking while observing, measuring, and observing. ***Be prepared to get MESSY in this class! This class will feature a live animal visit from Cool Critters.***

### **iLos Visitantes de la Argentina!, Grades 2-5, Materials Fee \$20**

Join us to learn basic Spanish like how to talk about your birthday, where you are from, your likes and dislikes and some other favorites. By pretending there are exchange students coming to visit from Argentina, we will imagine what it would be like to visit another country and what we would want to provide for our Argentinean "visitor." What would they be used to eating? What customs might they share? This fun class explores the culture of Argentina through immersion-type language activities, dancing, and food!

*\*Please provide food allergy information\**

**Math Game Gurus, Grades K-5, Materials Fee \$15**

Brilliant mathematicians are behind many of our modern-day successes! Did you know that math is used in many ways in most careers? Astronauts, entrepreneurs, doctors, lawyers, teachers, politicians, and business owners all rely on mathematics. Add some more math to your life as we investigate interesting games and problems to deepen and broaden our understanding of mathematics. Join us in this fun, interactive Mathcentric class!

**Minecraft Innovators, Grades K-3, Materials Fee \$5**

It's Minecraft innovation mania at NKU! In this fun, creative course, we will use the popular Minecraft video game to build our own worlds, solve puzzles, and create together! New *and* returning Minecraft Innovators will work both individually and in teams to take on each day's exciting new challenges, such as various building and crafting challenges, team games and competitions, and much more! We will see great connections between our Minecraft worlds and the world around us as we collaborate in fun class projects and discussions. While building and playing, gain a great appreciation for math and science, and see your creativity and social skills soar! Both newcomers and experienced Minecraft players are invited to have fun and learn together! ***Students must bring their own device (laptop, tablet, Kindle, iPad, iPod, etc.) with Minecraft installed.***

**Paleontologist Interns, Grades K-3, Materials Fee \$20**

Dinosaurs roamed the earth and dominated the planet in a variety of ways. Today we can visit their bony remains in museums or peer into the past by looking at their fossils. Put on your paleontologist hat and come discover what the world was like for these magnificent ancient reptiles. How did they live? How did they become extinct? Do they roam among us today?

## **INNOVATORS (GRADES 3-6):**

**Awesome Amazing Architects, Grades 3-6, Materials Fee \$15**

Join us for this fun-filled architecture adventure! Future designers, builders, and architects are introduced to architectural vocabulary, architectural tools, and visual/spatial thinking. We will design our own buildings and build models in various formats with varied materials. Investigate art, architecture, science, and math in this truly transdisciplinary course.

**Art through the Ages, Grades 3-8, Materials Fee \$10**

Join us as we travel through time exploring art through the ages! We will be starting as cave dwellers on day one! Mix your own paint as we make cave drawings! As we evolved through time, so will our art as we discover the Renaissance and paint our own Sistine Chapel—hope you are comfortable painting on your back! Then we will move through Impressionism and more! You will go into deep thought while creating unique artistic masterpieces.

**Champion Chess Masters in Training, Grades 2-8, Materials Fee \$25**

Are you a chess beginner or perhaps you are ready to take your chess playing skills to the next level? In this class, you will learn all about the world of chess and strategies that you can use to impress others. You will learn how to compete in tournament style chess competitions while expanding your critical thinking skills. These strategies will surely put you on the pathway to Grand Master status. With the materials fee, you will receive an official tournament chess set.

### **Crafty Creators 2.0, Grades 3-8, Materials Fee \$10**

Do you enjoy creating with your own hands? Is there nothing you love more than making something unique out of a little paper, string, glue, paint, and other odds n' ends? Crafty Creations 2.0 will create multiple projects, using a variety of mediums. Come ready to design and create in this completely redesigned course! *Students who have already taken the Crafty Creators class will find this to be all new projects and learning.*

### **Harry Potter Muggles and Wizards Unite, Grades 4-8, Materials Fee \$15**

Calling all Harry Potter Experts! Do you think that you are the expert on all things Harry Potter? Could you answer all the questions on Jeopardy if the topics were based on these fascinating novels? This session is designed for you! Sirius Wizards only. Muggles need not apply.

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### **Mysteries in Math, Grades 3-6, Materials Fee \$15**

Zookeepers, horse stable owners, engineers, archeologists, lawyers, pilots, firefighters, newspaper editors, dairy farmers, and arson investigators ... these are just a few of the real people who use math in their daily lives. Join us in this interactive class where we will solve real-life math mysteries and explorations. We will develop our critical and creative problem-solving skills while seeking answers to mysteries and problems used by community and business leaders throughout our community. You don't want to miss out on this mathematical mystery adventure!

### **The Road to Becoming a Doctor, Grades 3-6, Materials Fee \$15**

How does your brain work, why your eyes are blue and your hair brown or what happens to your food once you eat it? Do you want to know how you keep breathing even when you are sleeping, how fast your heart beats or why you hurt when you fall? Take a journey with us through the different systems of the greatest machine ever, the human body. This hands-on class features activities, experiments, demonstrations and games where you'll discover the body systems, what they do and why they do it.

### **STEM Explorers: Rollercoasters, EV3 Robotics, Ozobots, Oh My, Grades 3-6, Materials Fee \$10**

Join us as we explore the wonders of the scientific and mathematical world. We will conduct hands-on experiments, investigations, and research utilizing the scientific method while we engineer with LEGO building bricks, build rollercoasters, compete with Hot Wheels cars, and explore basic coding with Ozobots. You don't want to miss this class!

### **Veterinary Residency, Grades 3-6, Materials Fee \$20**

Do you bring home stray dogs? Do you nurse birds with injured wings back to health? Do you climb up to get the cat that won't come down from the tree? Sounds like you are ready to become a veterinarian! Join us as we learn about the animal kingdom's most fascinating members. We will explore topics such as animal kinesiology, diet, and health issues. ***This class will feature live animal visits from the Newport Aquarium/WAVE Foundation and All Creatures Animal Hospital.***

### **Video Game Developers, Grades 4-8, Materials Fee \$10**

We will become our own video game developers in this hands-on, minds-on class. Learn the skills and techniques necessary to design and program your own video games using professional game development software, while expanding your skills as we learn how to incorporate a multitude of fun new features into video games! You will strengthen your math, science, logic, and artistic skills while gaining a sense of self-confidence! ***Students enrolled in this class need to bring a 1 GB USB drive with them to class.***

## **GROUNDBREAKERS (GRADES 5-8):**

### **Champion Chess Masters in Training, Grades 2-8, Materials Fee \$25**

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### **Debate Club, Grades 5-8, Materials Fee \$15**

Are you an expert at debating issues? Can you convince your parents and friends to see your side of things? Would you consider yourself "mayor" of your house or in line to be a future politician? Whether you answered yes to these questions or you want to be able to answer yes to these questions, then come explore the dynamics of giving a persuasive speech and becoming an unbeatable debater! We will use a range of appropriate current event topics and dive into lively debates on both sides of controversial kid topics!

### Harry Potter Muggles and Wizards Unite, Grades 4-8, Materials Fee \$15

Calling all Harry Potter Experts! Do you think that you are the expert on all things Harry Potter? Could you answer all the questions on Jeopardy if the topics were based on these fascinating novels? This session is designed for you! Sirius Wizards only. Muggles need not apply.

### Psychology 101, Grades 5-8, Materials Fee \$10

Can your eyes and ear deceive you? How good is your memory? Do you remember your dreams? How reliable is eye-witness testimony? What happens when your brain gets damaged? How do we measure brain activity? Come and discover the exciting world of psychology. This class will feature games, experiments, hands-on demonstrations, and activities that illustrate how we think and how our brain works.

### Science of Drones, Grades 5-8, Materials Fee \$15

Discover how drones work. Learn the physics of drone flying. We will develop ideas for the integration of drones into our daily lives. How can we use them and where? Traverse aspects of vertical motion and how gravity affects drones. Thrust and speed plan an important role in flight. What is angular momentum and linear momentum? Why is symmetry vital? Join us as we create videos and explore with an actual drone.

### Walking with Shakespeare, Grades 4-8, Materials Fee \$10

Join us to explore the works of Shakespeare. We will explore his major writings, the way he wrote them, and the intricacies of his sonnets. You will strengthen your theatrical skills as we analyze different monologues and scenes from his plays and gain insight into what goes behind the theatrical scenes— blocking, stage direction, costuming, and more. You don't want to miss this theatrical adventure walking with Shakespeare.

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### Mark Your Calendar

Summer Camp Innovation  
June 11-15, 2018  
at  
Northern Kentucky  
University



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## ABOUT NORTHERN KENTUCKY UNIVERSITY'S INSTITUTE FOR TALENT DEVELOPMENT AND GIFTED STUDIES:

The mission of the Institute for Talent Development and Gifted Studies is to be the standard bearer of talent development and gifted education.

The Institute shares Northern Kentucky University's three-part mission of teaching, scholarship, and public engagement by being a comprehensive and valued resource for students, educators, and parents in the regional community; innovating educational technology best practices that support the precocious abilities of gifted and talented children; and conducting rigorously applied research on topics relevant and useful to gifted and talented students, educators, and parents.

The Institute strives to develop collaborative, meaningful partnerships with businesses, community agencies, and educational institutions in support of high potential and gifted youth.

**NKU's Institute for Talent Development and Gifted Studies thanks our partner organizations:**



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