

## **CAMP INNOVATION: PATHWAYS TO COLLEGE PROGRAM FOR GIFTED AND TALENTED YOUTH GRADES K-6**

Summer 2017  
Monday-Friday, June 12-16  
8:30 – 11:30 am

Northern Kentucky University's Camp Innovation Pathways to College Program is a trailblazing 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**

- Summer 2017 semester courses will be held Monday - Friday, June 12 - June 16<sup>th</sup>
- Classes meet from 8:30 – 11:30 AM.
  - Students select **2 courses** for the summer program.
  - The first course meets from 8:30-10:00 and the second meets from 10-11:30.
  - Students will be escorted between classes by program personnel.
- Classes are held in the Mathematics-Education-Psychology Center and Business Academic Center at Northern Kentucky University

### **WHAT MAKES NKU'S CAMP INNOVATION PROGRAM LEADING-EDGE?**

- Student-centered focus on career exploration pathways and college-readiness
- Emphasis on critical and creative thinking through independent learning
- Environment that values creativity, diversity, entrepreneurship, and achievement
- Challenging hands-on, transdisciplinary learning
- Personal attention from dedicated teachers trained through graduate coursework in gifted education
- Small class sizes for caring, personalized, and differentiated instruction
- The opportunity to share interests with other high potential children

## REGISTRATION

- Registration opens Monday, April 24. It is available online: <http://inside.nku.edu/gifted> or via phone: 859-572-5600 before Monday, June 5.
- **Tuition \$150** (A limited number of need-based financial aid scholarships are available. For further information, call 859-572-5600.)
  - Class Materials fees are paid directly to the individual teachers on the first day of class.
- 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.
- There will be an additional \$30 processing fee for registrations received after June 5, 2017.
- 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.

## REFUNDS

- Full refunds, minus a \$30 processing fee, may be given prior to June 5, 2017.
- No refunds will be made after June 5, 2017.
- 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.

## AFTERNOON CARE

- Afternoon care is available through NKU's Early Childhood Center's summer program from 11:30 am – 6:00 pm. Contact Lindsey Shaffer, Summer Camp Coordinator, 859-572-6338 or [ecc@nku.edu](mailto:ecc@nku.edu) for details and registration.

## 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 a closing, the program director will send an email to all participants. 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.



# SUMMER 2017 CAMP INNOVATION: PATHWAYS TO COLLEGE COURSES:

## Builders (Grades K-3):

Class Choice #1 (8:30-10:00)	Class Choice #2 (10:00-11:30)
Astronauts in Training	Astronauts in Training
You Can Be an Author	Champion Chess Masters
Champion Chess Masters	I Can Be a Doctor
Grossologists: The Science of the Ick	Lego Story Builders
Manga Animal Artists	Minecraft Innovators
Math Game Designers	Hot Wheels Racecar Builders
Paleontologist Interns	Under Sea Explorers

## Builders Course Descriptions

### **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 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 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.***

### **You Can Be an Author, Grades K-3, Materials Fee \$10**

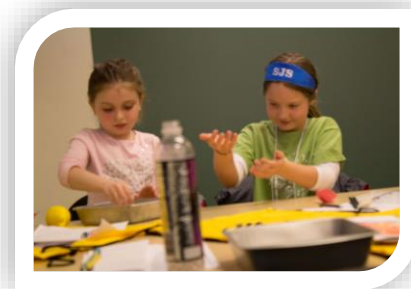
Have you ever thought about writing your own book? Explore the writing process and what it takes to write, publish and market your very own writing. Develop your writing skills and create your own literary masterpiece!

### **Champion Chess Masters in Training, Grades 2-6, 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.***



## Builders Course Descriptions

### **I Can Be a Doctor, Grades K-3, Materials Fee \$15**

Heads, Shoulders, Knees and Toes – We all know the song, but do we know what happens to the food we eat and the air we breathe? What happens inside your body when you yawn or sneeze? We will explore these questions and more by learning about our fascinating bodies and how they work.



### **LEGO Story Builders, Grades K-3, Materials Fee \$10**

Do you love to write, but are limited to the same styles of writing? In this fun and engaging course, you will be introduced to different types of writing in a very interactive way -- we will create stories using LEGO building bricks. We will then animate our stories using iPads. You will leave knowing more ways to write about a variety of topics, while also having a blast with LEGO blocks.

### **Manga Animal Artists, Grades K-6, Materials Fee \$10**

Learn to be a manga animal artist in this fun class. We will learn explore Japanese art and design. Learn the basic structures and techniques for adding color with blendable markers, pen, and watercolor. You will leave this class with your own Japanese inspired cartoon animals.



### **Math Game Designers, Grades K-3, 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-6, 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 ancient reptiles. How did they live? How did they become extinct? Do they roam among us today? ***This class will feature live animal visits from the Newport Aquarium/WAVE Foundation***

### **Hot Wheels Racecar Builders, Grades K-3, Materials Fee \$5**

Don't forget your seatbelt for this fast-paced class using hot wheels to discover science, math, and geometry. We will use play to inquire and explore energy, force, measurement, distance, data collection and analysis while designing our own speed ramps and mini collision courses. *Students are welcome to bring a Hot Wheel or other toy car to class with them.*



## Builders Course Descriptions

### Under Sea Explorers, Grades K-3, Materials Fee \$15

Come explore and learn as we take a plunge underwater to learn about the world under the sea! “Just look at the world around you. Right here on the ocean floor. Such wonderful things surround you. What more are you lookin' for? Under the sea...Under the sea...” Let’s explore what we find under the surface. Plants, fish, and animals are all living together! We will learn about them and maybe you might find a few new favorites. As we learn we will paint and create seascapes, fish, and animals! Put on your scuba gear as we get ready to take a fun ride into the ocean.



### Innovators (Grades 3-6):

Class Choice #1 (8:30-10:00)	Class Choice #2 (10:00-11:30)
Be the Next Poet Laureate	ARTpreneurs
Beaks to Eats: Environmental Scientists	Board Game Entrepreneurs
Champion Chess Masters	Champion Chess Masters
Color Wheel Cookie Creators	Culinary Artists: Cupcake Wars
Crafty Creators	Difference Makers: Changing the World One Lemon at a Time
Creative Digital Writing Geniuses	geARTetry: Geometry Visual Artists
Design Leader Challenge	Mathematician Game Designers
Fantastic Beasts Exploration	Muggles and Wizards Unite—A Theatrical Exploration of Harry Potter
Manga Animal Artists	Minecraft Innovators
Physics and Engineering Co-Op	Physics and Engineering Co-Op
The Road to Becoming a Doctor	Ready, Set, Design
Robotics Innovators	Sporty Mathematicians
Upcyclers: Giving old Items a Second Chance	Veterinary Residency
Video Game Developers	Writer’s Block

# Innovators Course Descriptions

## **ARTpreneurs, Grades 3-6, Materials Fee \$15**

Do you love to make art and express yourself? Join us and create a portfolio that's all about you and your art! We will be ARTpreneurs creating our own masterpieces and exploring new innovative artistic techniques. The possibilities are endless and the results will be priceless. Come ready to create!



## **Be the Next Poet Laureate, Grades 3-6, Materials Fee \$5**

Have you ever thought about writing your own book of poetry? Explore the creative writing process and what it takes to write, publish and market your very own fairytales and poetry. Develop your writing skills and create your own literary masterpiece!

## **Beaks to Eats: Environmental Scientists, Grades 3-6, Materials Fee \$15**

Transform your mind to think like a bird! In this class, you will experience life as a bird! Every day you will be exposed to a new environment to live in. You are on the hunt for food, but there's one problem-you're beak less! Use your bird brain to create the ultimate beak where you will never go hungry and be the best feed bird on the branch! Take home your beak creation each day to show off to all your friends!

## **Board Game Entrepreneurs, Grades 3-6, Materials Fee \$15**

Do you enjoy playing board games and stretching your mind to think in new ways? In this class, we will explore popular board game designs along with entrepreneurial concepts and skills. Dive into games that require you to think, strategize, make decisions, and take risks while keeping your wits about you! Once we have examined current board games, we will become board game entrepreneurial designers through creating our own games.



## **Champion Chess Masters in Training, Grades 2-6, 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.

## **Color Wheel Cookie Creators, Grades 3-6, Materials Fee \$10**

Are you ready to be the next master pastry and cookie chef? In this class, we will explore the colors of the color wheel while learning how these colors make you feel. You will explore how to make different colors and how they relate to interior design, designing rooms, and making edible creations. Join us on this color wheel adventure!

## **Culinary Artists: Cupcake Wars, Grades 3-6, Materials Fee \$10**

Join us to learn the basics of cupcake decorating. We will learn the different techniques bakers use to decorate and will learn to pipe icing using the various piping tips to showcase what the tips do. You will create and decorate your own cupcakes in this class. Join us for this tasty culinary adventure.

# Innovators Course Descriptions

## **Crafty Creators, Grades 3-6, Materials Fee \$10**

Do you enjoy creating with your own two 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 will take you through multiple projects, using a variety of mediums. Come ready to design and create!



## **Creative Digital Writing Geniuses, Grades 3-6, Materials Fee \$15**

Join us to show your creativity through written expression! We will record voice overs for movie trailers, create a real story book, and persuade the CEO of a major toy company why they should purchase our toy!

## **Design Leader Challenge, Grades 3-6, Materials Fee \$10**

Do you like a competitive challenge? Using minimal resources...can you create the tallest tower? Can you build a structure that will catch a ball from a 5 foot drop? Can you move a marble from one end of the room to the other? If you think you're ready, join us for the design leader challenge!

## **Difference Makers: Changing the World One Lemon at a Time, Grades 3-6, Materials Fee \$10**

This class is based on three simple beliefs: 1) Every person can make a difference. 2) One simple idea can become the catalyst for something much larger. 3) You get more than you give. Through philanthropy's three T's-time, treasure, and talent-we will dive into the whys and how's of giving, learn about the wide-array of nonprofit organizations in our community, and directly experience the power of giving. We will change the world one lemon at a time with our own lemonade stand. All proceeds will be donated to the organization our class selects. You will leave feeling empowered with a new understanding of the difference YOU can make every day.



## **geARTetry: Geometry Visual Artists, Grades 3-6, Materials Fee \$15**

Do you love to be creative and crafty? Do you enjoy math and art? Join us to learn how to use basic geometry concepts to create innovative works of art! You will leave this class with your own mathematics-inspired artwork.

## **Fantastic Beasts Exploration, Grades 3-6, Materials Fee \$15**

Explore the scientific possibilities of magiczoology and magical creatures while developing your creative writing skills. We will explore ideas from the *Fantastic Beasts* books and create our own publishable illustrations, writing pieces, and presentations of Fantastic Beasts.

## **Manga Animal Artists, Grades K-6, Materials Fee \$10**

Learn to be a manga animal artist in this fun class. We will learn explore Japanese art and design. Learn the basic structures and techniques for adding color with blendable markers, pen, and watercolor. You will leave this class with your own Japanese inspired cartoon animals.



# Innovators Course Descriptions

## **Mathematician Game Designers, Grades 3-6, 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 2-6, 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.***

## **Muggles and Wizards Unite—A Theatrical Exploration of Harry Potter, Grades 3-6, 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.

## **Physics and Engineering Co -Op, Grades 3-6, Materials Fee \$15**

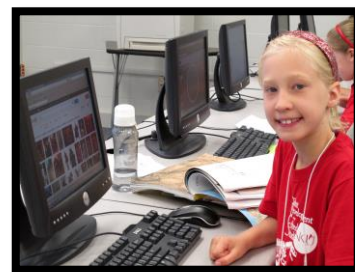
Rollercoasters, bridges, roads, electrical grids, and package deliveries all depend on the skills and knowledge of engineers. Join us to test your innovative building skills in design challenges using rollercoasters and other building materials as we take on real-life engineering challenges exploring concepts in physics, mechanical, structural, and architectural engineering. You will develop your critical thinking and design skills as we create specially designed models, manipulate challenging materials and scrutinize our progress.

## **Ready, Set Design: Grades 3-6, Materials Fee \$15**

Do you like to design and create things? If so, this is the class for you! Every day you will be exposed to a new design challenge using everyday materials to create a new product. We will see who has the best, most efficient product for each challenge presented. The best part is, you will have a new creation to take home with you every day!

## **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.





# Innovators Course Descriptions

## **Robotics Innovators, Grades 3-6, Materials Fee \$10**

In this class, we will explore robotics, mechanical systems, electronics, and programming. We will use LEGO's latest robotics system Mindstorms EV3 and Ozobots to design, build, and program functional robots. If you are ready to explore real-world robotics technology for engaging, hands-on challenges, this is the class for you!

## **Sporty Mathematicians, Grades 3-6, Materials Fee \$15**

Calling all students who love math and sports! This class is for you! We will analyze how statistics, probability, and math is involved in our beloved sports! Students will create their own sport and explain/demonstrate how math is used to excel in the sport!



## **Upcyclers: Giving Old Items a Second Chance, Grades 3-6, Materials Fee \$10**

Do you look for new ways to use old things? Join us for a week-long green learning experience with Upcycling, where we make one man's trash our treasures. Create one-of-a-kind objects using recycled materials, special embellishments, and endless creativity. Upon registration, students will be asked to bring items from home that would otherwise end up in a landfill. The week will culminate with the students leading "Up for Grabs," a camp-wide swap of items no longer wanted or needed.

## **Video Game Developers, Grades 3-6, Materials Fee \$0**

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!

***Please bring a USB drive to save your work.***

## **Veterinary Residency, Grades 3-6, Materials Fee \$15**

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 animal kinesiology, diet, and health issues. ***This class will feature live animal visits from the Newport Aquarium/WAVE Foundation and All Creatures Animal Hospital.***



## **Writers Block, Grades 3-6, Materials Fee \$10**

Think outside the box and join the Writer's Block! Use your imagination and creativity to make pictures come to life, put a spin on old fairy tale favorites, and create new stories that are all your own.

### **Mark Your Calendar**

**Fall Camp Innovation & Parent Place Programs, Saturdays, October 21 – November 4**

**Young Women LEAD Conference, Thursday and Friday, October 19 & 20**

**at**

**Northern Kentucky University**

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

NKU's Institute for Talent Development and Gifted Studies would like to thank our partner organizations:



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