**STEM CAREERS – SESSION 2**
July 23-28. Grades 10-12. Residential at the NIU DeKalb Campus. Campers can investigate different STEM careers by choosing the track that interests them most. 815-753-0533 or STEMOutreach@niu.edu.

**CODING**
Be a social hacker! Learn to use computer coding, engage in front- and back-end development and find innovative solutions to real community problems.

**ENGINEERING**
Engage in a weeklong engineering challenge as you learn about the different types of careers available to engineers. Meet with NIU engineering faculty and tour our engineering and tech labs, including our clean room.

**MANUFACTURING AND TECHNOLOGY**
Learn manufacturing techniques and compete to establish the most efficient assembly line, participate in design and construction challenges, visit the NIU engineering and tech labs, learn to solder and create an electronic device to take home.

**LIFE SCIENCES**
Explore the variety of careers devoted to the science of life. We’ll take a tour of the NIU greenhouse, study biology with NIU faculty and grad students and even visit the cadaver lab. Engage in a weeklong engineering challenge as you learn about the different types of careers available to engineers. Meet with NIU engineering faculty and tour our engineering and tech labs, including our clean room.

**EARTH AND SPACE SCIENCE**
From the ground beneath our feet to the stars above our heads, investigate what the universe is made of and learn how scientists study it. Work with faculty and students from the NIU departments of Geology and Environmental Sciences, carrying out experiments on terra firma and in the NIU observatory.

**HEALTH SCIENCES**
Investigate many of the ways in which scientists are helping people live healthier. We will meet with pharmacologists, biomedical engineers, epidemiologists and other types of health professionals as we explore these fields through our own hands-on investigations.

**VIDEO GAME DESIGN**
Explore popular video games and learn the essentials of game design. Using Scratch and GameMaker, create our own game by developing a story, characters, goals and rules, write storyboarding scenarios, design an interface and record sound effects.

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**AUGUST HIGH SCHOOL ADVANCED VIDEO GAME DESIGN**
August 7-10, Day, Age 12 to adult
Explore popular video games and learn the essentials of game design. Create a game by developing the story, characters, goals and rules; storyboarding scenarios; designing an interface and recording sound effects. 317-762-8727 or dcl@niu.edu.

**STEM CAREERS– SESSION 3**
July 30-August 4. Grades 10-12. Residential at the NIU DeKalb Campus. Campers can investigate different STEM careers by choosing the track that interests them most. 815-753-0533 or STEMOutreach@niu.edu.

**ENGINEERING**
Engage in a weeklong engineering challenge as you learn about the different types of careers available to engineers. Meet with NIU engineering faculty and tour our engineering and tech labs, including our clean room.

**LIFE SCIENCES**
Explore the variety of careers devoted to the science of life. We’ll take a tour of the NIU greenhouse, study biology with NIU faculty and grad students and even visit the cadaver lab.

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**ATHLETICS**
Top collegiate coaches mentor young athletes at premier NIU facilities. Campers are grouped according to age and skill level. Additional camps, dates and more information are available at niuhuskies.com/camps

**BASEBALL**
June TBD – Ages 5-12

**BASKETBALL**
Men’s Youth Camp Ages 8-11 - June TBD
Women’s Youth Camp, Ages 6-15 – June TBD

**FOOTBALL**
Youth Camp with the YMCA June 10
High School Camps June 11-23

**SOCCER**
Good Youth Day Camp, Ages 6-10. June TBD
Women’s Youth Overnight Camp July 10-12 6-9 (ages 12 – 15)
Women’s Elite Prospect Overnight Camp July 10-11 Grades 10+ (ages 16+)
Women’s ID One Day Camps, June 12 and July 17 Grades 10+ (ages 16+)
Men’s Elite Prospect Overnight Camp, Grades 9-12 (ages 14+) - July TBD

**VOLLEYBALL**
Grades 6-10 (ages 12+) - Overnight camps and one day Clinics - June and July

**WRESTLING**
June 25-28, Grades 5-12 (ages 10+)

**34TH ANNUAL SPORTS MEDICINE STUDENT OVERNIGHT WORKSHOP**
July 9-12, Grades 9-12 (ages 14-19)
High School

Hospitality Leadership
June 18, Residential (5 days)
Current high school students. Learn the business of helping people enjoy themselves. Job shadowing and planning a real dining experience will introduce you to exciting careers in travel, hotel management and restaurant operations. chris@eatniu.com

Fashion Studio
June 27-29, Residential (3 days)
Current high school students. Create garments and textile patterns using Adobe Illustrator, plan color palettes using Photoshop, and stage a themed fashion display. scooby@niu.edu

Creative Writing
June 28-29, Residential Grades 9-12.
Develop skills in poetry, fiction and creative non-fiction, and learn to give and accept constructive criticism. Journals, free-writing, guided writing and revision strategies are part of the workshop. 815-753-5200 or LASPE@niu.edu

Speech
June 25-30, Residential Grades 9-12.
Develop and enhance your knowledge in a specific area of speech by selecting or writing speeches, honing research skills, memorizing specific area of speech by selecting or writing speeches, honing research skills, memorizing

Film
June 25-30, Residential Grades 9-12.
Work with experienced media producers, camera operators and directors while learning digital film-making from script to screen. Complete a group produced short film for family, friends and festivals. 815-753-5200 or LASPE@niu.edu

Common Core Strategies for Elem and Middle School Writing
June 25-29, Grades 4-8.
Guided writing and revision strategies are part of the workshop. scosbey@niu.edu

Engineering

Students engage in a week long engineering challenge as they think about the different types of careers available to engineers. Campers will also meet with NIU engineering faculty as well as tour our engineering and tech labs, including our clean room.

Health Sciences

Investigate what it takes to help people lead healthier lives. Meet pharmacologists, biomedical engineers, epidemiologists and other health professionals and conduct hands-on investigations.

Physical Sciences

Explore careers in the expanding fields of physics and chemistry. Participate in hands-on experiments, visit NIU researchers and get a behind-the-scenes tour of Fermi Lab.

Video Game Design
Explore popular video games and learn the essentials of game design. Create a game using Scratch and GameMaker by developing a story, characters, goals and rules. Write storyboarding scenarios, design an interface and record sound effects.

Middle School

Geography Camp: Surviving the Zombie Apocalypse
June 25-30, Grades 7-9.
Explore geography careers and learn what it takes to survive a zombie apocalypse. While investigating growth, human and technological aspects of geography impact daily decision-making, 815-753-5200 or LASPE@niu.edu

Exploring STEM - Session 1
June 25-30, Grades 7-9.
Residential at the NIU DeKalb Campus. Choose a track and investigate STEM concepts and careers. 815-753-0533 or stemoutreach@niu.edu

Chemistry

Chemistry is everywhere from ice cream to tie-dye! Our fun, hands-on activities will have you learning about lab safety and help you form good scientific habits.

Lightning Bolts and Magnetic Fields
Investigate circuits and electricity and learn how to control and construct your own devices, explore magnetism with homemade electromagnets and create your own electric motors and generators.

Sci-Fi
Can radiation give you super powers? Can you really build a light sabre? See the science in sci-fi with hands-on activities and super heroes.

LEGO EV3 Robotics: Engineering
Construct and program LEGO EV3 robots that move, talk, react with their surroundings and even communicate.

Video Game Design
Explore popular video games and learn the essentials of game design. Create a game using Scratch and GameMaker by developing a story, characters, goals and rules. Learn coding in Scratch and use the 3-D virtual worlds in OpenSim.

STEM Careers - Session 1
June 18-23, Grades 10-12.
Residential at the NIU DeKalb Campus. Campers can investigate different STEM careers by choosing the track that interests them most. 815-753-0533 or stemoutreach@niu.edu

Coding
Learn the core concepts of programming languages and discover basic and advanced techniques of coding for computers, cell phones, robots and more. Work on your own projects and program mobile computers.

Middle School Engineering Amusement
July 9-14, Grades 7-9.
Residential at the NIU DeKalb Campus. Learn the uses and dreams of amusement park attractions, design thrill rides, use 3-D modeling software and explore other engaging projects.

Exploring STEM - Session 2
July 9-14, Grades 7-9.
Residential at the NIU Lords Park Taft Campus. Choose a track and investigate STEM concepts and careers.

Art
Create, design and innovate. Campers will construct kinetic sculptures and automate, use polarization to “paint” with colored light, create holograms and much more.

Coding
Be a social hacker! Learn to use computer coding, engage in front- and back-end development and find innovative solutions to real community problems.

Engineering
From bridge building to cell phone circuits, engineers solve problems and create the future every day. Develop your problem-solving skills and hands-on projects and find the challenges that will spark your inner engineer.

Survival
Learn the first steps necessary to live another day. Once you have your survival skills you’ll create your own “z-day” scenario and learn the skills you’ll need to survive.

Water Robotics
Design, build and test robots in underwater challenges. Apply the engineering design process, use information technology tools and practice programming.

NIU Jazz Camp
July 9-14. Residential Grades 8-12 completed.
Enthusiastic jazz musicians of all skill levels take a creative approach to improvisation and ensemble playing. You’ll perform, learn, listen and improve your understanding of jazz tradition. 815-753-1450 or kherman2@niu.edu

Theatre Arts Camp Junior
Enjoy a week packed with rehearsals, workshops, acting classes, theatre games and improvisation. Each camp opportunity connecting to math, theatrical goals. 815-753-1450 or kherman2@niu.edu

Just for Girls! Video Game Design
Explore popular video games and learn the essentials of game design. Using Scratch and GameMaker, we’ll create our own game by developing a story, characters, goals and rules, write storyboarding scenarios, design an interface and record sound effects.

Northern Illinois University

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