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 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.

PYTHON AND PYGAME VIDEO GAME DESIGN CAMP
July 24-28. Grades 3-9. Learn to develop your own video games using the Python programming language and Pygame, a free and open source library for making multimedia application-like video games. 317-762-8727 or dcl@niu.edu.

CREATIVE WRITING
July 24-28. Grades 6-8. Develop skills in poetry, fiction and creative nonfiction, and learn to give and accept constructive criticism. Free-writing, guided writing, artistic collaboration and revision strategies are part of the week. 815-753-5200 or LAGEP@niu.edu.

HIGH SCHOOL

THEATRE ARTS CAMP SENIOR
July 16-21. Residential. Grades 9-12 completed. Enjoy a week packed with rehearsals, workshops, acting classes, theatre games and improvisation. Each camper receives coaching to reach theatrical goals. 815-753-9490 or ksherman@niu.edu.

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ON-CAMPUS AT NIU
SUMMER CAMPS 2017
For additional information, camp registration and details on need-based scholarships, visit go.niu.edu/summercamps or call 800-345-9472.

JUNE
ELECTRARY SCHOOL

DAY CAMPS
June 20-29, Grades 2-5
9 a.m. to 3 p.m. daily
Contact STEMOutreach@niu.edu or 815-753-0533

STEM DIVAS
June 27-30, Day. Grades 2-5
We’re creating a community of confident female scientists and engineers age span and up who embrace STEM and femininity. Learn soldering wearable electronics, woodworking, 5-D printing, robotics and more.

STEM JUNIOR
Spent four exciting days exploring STEM concepts and applying what you learned to creative, hands-on projects. Work with Lego robotics, simple-electric circuits, 3-D printing and more.

MIDDLE SCHOOL

GEOGRAPHY CAMP: SURVIVING THE ZOMBIE APOCALYPSE
June 20-23, Grades 6-8
Explore geography careers and learn what it takes to survive a zombie apocalypse, while investigating how physical, human and technological aspects of geography impact daily decision-making. 815-753-5200 or LASEP@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 everything from ice cream to tie-dye! Our fun, hands-on activities will share the wonders of chemistry's role in safety and help you form good scientific habits.

LIGHTNING BOLTS AND MAGNETIC FIELDS
Investigate circuits and electrical theories. You'll learn to solder and construct your own devices, explore magnetism with homemade electromagnets and create your own electric motors and generators.

SCIENCE
Can radiation give you super powers? Can you really build a light saber? See the science in sci-fi with hands-on activities and experiments. 815-753-1450 or ksherman2@niu.edu.

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 explore 3-D virtual worlds in OpenSim.

CAMPERS – 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 discuss basic and advanced techniques of coding for computers, cell phones and robotics. Work on your own projects and program mini-computers.

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

HEALTH SCIENCES
Investigate what it takes to help people live 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, meet 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. Using Scratch and GameMaker, create your own video game by developing a story, characters, goals and rules, while storyboarding game planning, then create a short synopsis of a game design and an interface and record sound effects.

HIGH SCHOOL

HOSPITALITY LEADERSHIP
June 16-19, Residential (3 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. chtrenzo@niu.edu.

FASHION STUDIO
June 27-29. Residential (3 days)
Create garments and tailored fashion using Adobe Illustrator, plan color palettes using Photoshop, and stage a themed fashion display. scbaoy@niu.edu

CREATIVE WRITING
June 6-22, Residential, Grades 9-12.
Develop skills in poetry, fiction and creative non-fiction, and learn to give and accept constructive criticism. Journaling, free-writing, guided writing and revision strategies are part of the week. 815-753-5200 or LASEP@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 passages and practicing the art of effective delivery. 815-753-5200 or LASEP@niu.edu.

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 movie for family, friends and festivals. 815-753-5200 or LASEP@niu.edu.

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MIDDLE SCHOOL

ENGINEERING AMUSEMENT
July 9-14, Grades 7-9.
Residential at the NIU Dekalb Campus. Learn the art and science of amusement park attractions, design thrill rides, use how engineers optimize traffic flow and even conduct carnival concoctions. Then spend a day designing experiments at Six Flags. 815-753-0533 or STEMOutreach@niu.edu.

EXPLORING STEM – SESSION 2
July 9-14, Grades 7-9.
Residential at the NIU DeKalb Taft Campus. Choose a track and investigate STEM concepts and careers. 815-753-0533 or stemoutreach@niu.edu.

ART
Create and innovate while investigating the science and technology of art. Construct wind-powered kinetic sculptures, use polarized light in painting, create holograms and 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 circuitry, engineers solve problems and create the future every day. Develop your problem-solving skills with hands-on projects and fun challenges that will spark your inner engineer.

SURVIVAL
In this exciting new track, you’ll learn the science of survival. Learn to navigate using the night sky, identify plants, purify drinking water and spend a night in a lean-to you construct yourself.

WATERBOTICS
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 ksherman2@niu.edu.

THEATRE ART CAMP JUNIOR
July 9-14, Residential, Grades 8-12 completed.
Enjoy a week packed with rehearsals, workshops, acting classes, theatre games and improvisation. Each camper chooses a track from acting to theatrical design goals. 815-753-1450 or ksherman2@niu.edu.

JUST FOR GIRLS!
VIDEO GAME DESIGN
July 10-14, Day. Grades 5-8.
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. 815-762-8727 or dcl@niu.edu.

MINECRAFT AND VIDEO GAME DESIGN CAMP
July 17-21, Day. Grades 5-9
Use Minecraft to explore and build a virtual world while learning Computer Coding and Redstone. Develop skills in complex problem-solving, working in teams and project management. 317-762-8727 or dcl@niu.edu.

Northern Illinois University

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