

SUMMER STEAM UNIVERSITY 2022

COMMUNICATION



CRITICAL THINKING



COLLABORATION



CREATIVITY



Washington County | Waukesha

Continuing Education & Professional Development

ABOUT OUR CAMPS

UWM at Washington County & Waukesha Summer STEAM (Science, Technology, Engineering, Art and Math) University camps are designed to meet the needs of highly motivated children between the ages of 8-14. We are eager to provide safe, fun, hands-on learning that will provide a foundation of skills that students will continue to build upon throughout their lives. Our goal is to provide students with the key skills needed for success and individual growth.

These main skills are sought after by employers and are referred to as the 4 C's:

- Communication
- Collaboration
- Critical Thinking
- Creativity

Summer STEAM University camps will consist of two workshops per day and students have the option to enroll in either full day or half day programs. Upon completion students will receive a certificate of completion and a camp gift. Visit our website for full camp descriptions and schedules. *Some camps are only available for a full day.

Full day will meet Mon-Thur, 9am-4pm. Half day sessions will meet 9:00am-12:00pm (AM) or 1:00-4:00pm (PM).

Save! Register before April 30th for \$269/full day camp or \$139/half day camp. Register after April 30th for \$299/full day camp or \$169/half day camp.

STUDENT PROGRAM POLICIES

University of Wisconsin Milwaukee at Washington County and Waukesha Continuing Education (CE) are committed to each student's success in learning within a fun, caring, responsive, and safe environment that is free of discrimination, violence, and bullying. Our university works to ensure that all students have the opportunity and support needed to develop to their fullest potential. We believe that all students have the right to learn.

Behavior deemed inappropriate may be any action that causes a disruption to the program, undermines the integrity or safety of the program, is harmful or violent, is discriminatory to other students, is deemed to be bullying, is inappropriately profane, graphic/pornographic in image or speech, or is in direct violation of the campus or department student program policies. We reserve the right to dismiss a student regardless of the severity of the behavior/circumstance or refutation of said student.

UWM at Washington County and Waukesha CE will always try to resolve behavioral issues with students in a fair and respectful manner, working individually or with all persons involved in any conflict. Depending on the severity of the situation, UWM at Washington County and Waukesha CE staff will work through student issues directly. If further resolution is necessary, Continuing Education administrators will step in to assist in resolving the situation.

Any student that uses physical aggression or any other such actions that are deemed inappropriate by CE Staff, will be immediately dismissed from the program. If student is a minor, parent/guardian will be required to pick up their child from the program immediately. Re-admittance to the program for any such individual removed will be at the discretion of the Continuing Education Director or Campus Dean. No refunds will be authorized in the event of a dismissal.

BATTLE OF THE BLOCKS CAMP



Washington County | Waukesha

JUNE 13-16, 2022

Full day and half day options



Minecraft: Kingdom Conundrum

Join this magical camp and travel back in time to create your own medieval kingdom within Minecraft: Education Edition! Camp participants will learn what is required to make a successful civilization when confronted with the same problems medieval societies once struggled with. Harnessing the knowledge of medieval engineering, culture, and history, camp participants will learn from the past to construct a thriving medieval empire. Together, we will develop a nation and rely on working as a cohesive unit to adapt and succeed in our task towards a unified society. Do you have what it takes to stand the test of time?

Roblox: Journey to the Future

From space travel to robotic advancements, the future is yours to shape! Who knows what tomorrow holds? Learn about the cutting-edge innovations that are changing the world as we know it. Using imagination and creativity, camp participants will learn to design themed creations in Roblox Studio. Participants will learn the fundamentals of game design through lessons and insights to help their future game developments. At the end of the week, everyone will share their own unique creations using their newly learned programming skills. What will you explore?

8-10 YEARS

9:00am to 12:00pm

Minecraft: Kingdom
Conundrum

1:00pm to 4:00pm

Roblox: Journey to the Future

11-14 YEARS

9:00am to 12:00pm

Roblox: Journey to the Future

1:00pm to 4:00pm

Minecraft: Kingdom
Conundrum

FIELD STATION FUN! ENVIRONMENTAL CAMP: PLANT & ANIMAL LIFE



JUNE 13-16, 2022
Full day ONLY
at UWM at Waukesha
Field Station



Unplug and embark on a different kind of adventure! Take a walk on the wild side of STEAM during this hands-on trek through the woods, located at the beautiful UWM at Waukesha Field Station. Step into our outside classroom and learn what it takes to be a biologist as we explore the diverse and often, complicated food webs, ecosystems and habitats that can be found in our backyards and beyond. Camp participants will discover river life through field survey and samplings, animal and plant classifications and animal diets. Camp participants will create their own animal that would thrive in an assigned specific habitat using the animal adaptations explored. The week will be filled with fun scientific activities, hikes and journaling to record our findings every day! Roll up your sleeves, it's time to get to work! This camp will incorporate guest speakers and the opportunity to meet/care for animals or birds with our on-site partner, Wildlife In Need Center (WINC). This week, we become plant botanists, marine biologists and also animal biologist/zoologist. Dress for outside and bring water shoes, a lunch, water bottle, sunscreen and bug spray each day of camp.

8-14 YEARS

Limited Space Available!

Register before April 30th for \$296!

Register after April 30th for \$329!

UWM at Waukesha Field Station; W349 S1480 S. Waterville Rd. Oconomowoc

CAMERA READY CREATORS CAMP



Washington County | Waukesha

JUNE 20-23, 2022

Full day and half day options



eSports Apprentice; Streamers and Gamers

Whether you want to be the next pro-gamer, streamer, or gamecaster, this camp has all the basics to get started! No longer just a hobby, eSports is the fastest-growing career for the next generation. Over 400 million people watched YouTube® videos and Twitch® streams of video game competitions this year alone! Camp participants will develop game-play skills and compete using eSports games and apps, will learn how to produce commentary for live tournaments, will use professional streaming software, and most importantly, will practice online safety. Videos will not be broadcast publicly but will be shared with all students in the camp. Student recordings will be available on a password protected website to share with friends and family.

YouTube® Content Creators

Have you wanted to post to YouTube® but were hesitant to get started? Find your voice and leave your mark on the world! Camp participants will learn how to create and post on YouTube® in a safe environment so they can find the YouTube® star hiding within themselves! Camp participants explore the variety of content and personalities that exist on YouTube® and how to best find their own niche. We'll learn the Dos and Don'ts of the platform and how to practice good digital citizenship. Participants will develop their on-camera presence, their own channel branding, and professional editing skills. All participants will take home a plan for launching their own channel with the content created in class! Camp participant projects will be available on a password protected website to share with friends and family.

8-10 YEARS

9:00am to 12:00pm

eSports Apprentice

1:00pm to 4:00pm

YouTube® Content Creators

11-14 YEARS

9:00am to 12:00pm

YouTube® Content Creators

1:00pm to 4:00pm

eSports Apprentice

VIRTUAL CREATIVITY



Washington County | Waukesha

JUNE 27-30, 2022

Full day and half day options



Virtual Reality: The Future is Now

Embark on an epic adventure in virtual reality (VR)! In this cutting-edge camp, participants are engaged in the foundations of VR design by creating their own virtual worlds, exploring simulated environments, crafting 3D experiences, and learning basic programming concepts. At the end of the week, camp participants will take home their cardboard VR headset to show friends and family the new worlds they created. Students do not need a mobile device to take the class but will need access to a mobile device at home. VR projects can be shared with friends and family on a password protected website or mobile device.

YouTube® FX Masters

Do you love movies with exciting special effects, like *The Avengers*, *Star Wars*, or *Harry Potter*? This camp will focus on the magic of Hollywood! Camp participants will be creating their own visual effects to enhance their own YouTube® videos or maybe to create a cool scene to amaze their friends and family! Participants will learn how to create the illusion of swinging a lightsaber or blasting fire from hands by learning to create magical visual effects. Through trial and error, campers will experiment with visual effects as they learn the dynamics of camera angles, editing, graphic layering and sound effects to take their channel to the next level. Student projects are available on a password protected website to share with friends and family.

8-10 YEARS

9:00am to 12:00pm

Virtual Reality: The Future is
Now

1:00pm to 4:00pm

YouTube® FX Masters

11-14 YEARS

9:00am to 12:00pm

YouTube® FX Masters

1:00pm to 4:00pm

Virtual Reality: The Future is
Now

MIDDLE SCHOOL MUSICAL THEATER CAMP



JULY 5-23, 2022
10:00 AM-NOON
Waukesha ONLY



This hands-on, participatory theatre camp is designed as an introduction to an active, creative learning experience where students will collaborate with working professional instructors and classmates as they rehearse and perform a stage musical: School House Rock! Live JR.

Schoolhouse Rock Live! JR. is based on the beloved Saturday morning educational cartoon. A loose, revue-like structure follows a schoolteacher trying to win students over with imagination and music. Memorable songs such as "Just a Bill," "Lolly, Lolly, Lolly" and "Conjunction Junction" bring the lesson plans vividly to life. Our 2022 summer theatre camp is offered in-person on the Waukesha campus of UWM in the Lunt-Fontanne Theatre. This lively camp will include a variety of experiences around the creative process including; singing, acting, dancing and production.

Students will receive special master class sessions with guest artists in small group settings and will provide theatre camp participants with experience in leadership, collaboration, and team building! Performance dates are July 22-23 and students are required to attend.

Grades 6, 7, 8

See your talented instructor's bios online!

Students are also invited to attend the high school camp performance July 29-31. No class Monday, July 4.

Register before April 30th for \$439!

Register after April 30th for \$499!

BASKETBALL SKILLS CAMP



JULY 11-14, 2022
Waukesha ONLY



Calling 5th to 8th grade basketball enthusiasts who are looking for an opportunity to get a leg up on the competition! UWM at Waukesha is excited to announce the return of our Basketball Skills camp! Students will have the opportunity to work closely with a former collegiate and professional athlete while learning the fundamentals of basketball in a fun and team-oriented environment. The camp will be designed to build positive relationships with the others through the game of basketball. Students will participate in drills, focus on skill development and individual and team competitions. Students will leave camp with more confidence in their basketball skills and a camp gift as well! Student groups will be divided by the grade they are entering in the fall. All participants will be required to follow UWM mask policies. Camp will be held at the UWM at Waukesha Fieldhouse.



Grades 5-8

Grades 5 & 6 will meet 9:00–11:00am

Grades 7 & 8 will meet 1:00–3:00pm

Save! Register before April 30th for \$75!

Register after April 30th for \$79

SPACECRAFT CREW



Washington County | Waukesha

JULY 11-14, 2022

FULL DAY CAMP ONLY



From the sun and stars to Rocket science, we have the adventures that will take this action-packed camp out of this world! Through hands-on experiments and activities, students will explore five areas of space: the sun and stars, Earth's orbit and our moon, space travel and rocket science! Camp participants will soar with the stars and sun while calculating the traveling times to various planets in the solar system. They might be surprised when they figure out that it would take several years to reach some planets! A surprise guest speaker will be bringing an out-of-this-world activity and will be sharing personal astrophotography photos taken from his own observatory. The week is full of fun as participants learn about outrageous orbits, how the Earth's orbit causes different seasons, and practice a space training agility simulation in our camp's Junior Astronaut Training Center that we've prepared! The week will be capped off with our very own lift off when camp participants launch four rockets that they built themselves! From creating sun prints to space suit protection activities, participants will think this camp is out of this world!

AGES 8-14 **FIELD TRIP FRIDAY OPPORTUNITY AVAILABLE!**
Register before April 30th for \$269!
Register after April 30th for \$299!

LEVEL UP! CAMP



Washington County

Waukesha

JULY 18-21, 2022

Full day and half day options



ROBLOX® Coders & Entrepreneurs!

Camp participants will discover the Lua language through a visual block coding system while designing worlds in ROBLOX®, an online universe where you can create anything you dream of. This new camp combines game design concepts, coding, and fun! Young entrepreneurs will also learn how to navigate ROBLOX's fast-growing marketplace to publish their games. Student-created games will be available on a password protected website to share with friends and family.

JavaScript Developer Jam

Take programming to the next level! Camp participants will start off by learning an array of core programming concepts with JavaScript by experimenting in a series of digital challenges. Campers will start programming with their first animated memes, then tackle more advanced skills, such as interactive 3D experiences and game creation. Camp participants will feel like magicians as they learn programming tools so powerful they seem like magic! Projects will be available on a password protected website to share with friends and family.

8-10 YEARS

9:00am to 12:00pm

ROBLOX® Coders & Entrepreneurs!

1:00pm to 4:00pm

JavaScript Developer Jam

11-14 YEARS

9:00am to 12:00pm

JavaScript Developer Jam

1:00pm to 4:00pm

ROBLOX® Coders & Entrepreneurs!

THE ADVENTURE SPY DETECTIVES



Washington County | Waukesha

JULY 25-28, 2022

Full day and half day options



The Mystery of the Missing Video Game

This unique camp sends participants on a top-secret mission with thought provoking, hands-on scientific activities as they work as a group to solve the mystery of who took the missing video game! Participants will become spy detectives as they examine various clues left at the crime scene. Participants will examine and compare clothing fibers, hair samples, fingerprints, footprints and handwriting samples as they discover how to find overlooked details at the scene with their newly acquired observational skills! The group will learn about blood and ink evidence, as well as how DNA profiling plays an important role in solving crimes. Once our spies have gathered the scientific evidence, they will be able to solve the mission of the missing video game! **Students will receive Escape from a Video Game: The Secret of Phantom Island by Dustin Brady to read the week prior to camp start!*

Code Your Own Adventure! Interactive Storytelling

Watch as the characters in your imagination come to life in this unique course that blends classic storytelling with animation techniques and coding. Start with a concept, design the characters, and choose not just one ending, but many! Learn how to create your own text-based adventure games with variables, conditional logic, images, HTML, CSS, and Twine scripting syntax. Student projects will be available on a password protected website to share with friends and family.

8-10 YEARS

9:00am to 12:00pm

The Mystery of the Missing
Video Game

1:00pm to 4:00pm

Code Your Own Adventure

11-14 YEARS

9:00am to 12:00pm

Code Your Own Adventure

1:00pm to 4:00pm

The Mystery of the Missing
Video Game

BUILD IT BETTER: THE SCIENCE & TECHNOLOGY BEHIND ROLLER COASTERS



Washington County | Waukesha

AUGUST 1-4, 2022

Full day and half day options



Hands-On Coasters

Did you know that there are engineers who are currently working on the next big coasters around the world? Want to learn the secrets behind these engineering marvels? You've come to the right place! Join fellow physics, science and engineering enthusiasts in this one-of-a-kind camp where camp participants will start from the basics and learn Newton's Laws, build roller coasters from a variety of materials and finally learn about a variety of careers in roller coaster design.

Minecraft® Computer Coasters

Take roller coaster design to the digital dimension in this Minecraft design camp. Camp participants will start from the Minecraft basics (or will be met at their advanced level) to create a thrilling roller coaster from their imaginations. Will the coasters succeed, or will passengers be derailed? Only time (and space) will tell!

**Fieldtrip Friday opportunity available! More information available on our website.*

8-10 YEARS

9:00am to 12:00pm

Hands-On Coasters

1:00pm to 4:00pm

Computer Coasters

11-14 YEARS

9:00am to 12:00pm

Computer Coasters

1:00pm to 4:00pm

Hands-On Coasters

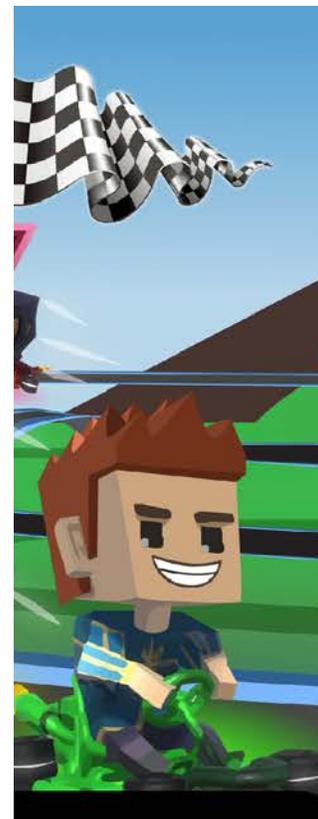
VIDEOGAME CODERS



Washington County | Waukesha

AUGUST 8-11, 2022

Full day and half day options



Python Programmers

Want to learn the world's fastest-growing programming language favored by Google®, NASA®, YouTube®, and the CIA? Camp participants will use Python to create engaging apps and games.

Beginner Python participants are set up on a programming path with step-by-step directions that will challenge friends with fun content you create from start to finish! Experienced Python participants will be creating advanced projects that are guaranteed to engage and amaze!

Rocket Kart Racers: Design A Mario Kart® Style Game

On your mark, get set, create! Blast off in making your first 3D Mario Kart® and Crash Team Racing® style game! Design your own tracks and customize your karts and characters. Using a professional 3D game development software, students will combine their creations into their own kart racing game that they can play with friends and family at home. Students can participate in eSports League races against other schools across the country with a chance to have their tracks featured in the Black Rocket master build of the game! Student projects will be available on a password protected website to share with friends and family.

8-10 YEARS

9:00am to 12:00pm

Hands-On Coasters

1:00pm to 4:00pm

Computer Coasters

11-14 YEARS

9:00am to 12:00pm

Computer Coasters

1:00pm to 4:00pm

Hands-On Coasters

FIELD STATION FUN! CONSERVATION CAMP: SAVE THE PLANET!



AUGUST 8-11, 2022
Full day ONLY
at UWM at Waukesha
Field Station



This is an opportunity for students to unplug and embark on a different kind of adventure to be a conservationist! With so many changes happening to our natural environment, we are asking the question “What can you do to help conserve our resources?”. During this week, camp participants will not only learn how they can create a positive impact on their local communities, but why it is so important! Camp participants will be on a mission to see if humans have impacted our planet by studying climate change and learning about weathering and erosion. Campers will brainstorm and engage in science activities to help understand renewable and nonrenewable resources and will also become wildlife biologists as they design a feeding station for migratory birds. Participants will design their own recycling projects and find out what they can do to help endangered species, both plant and animal! Dress for outside and bring water shoes, a lunch, water bottle, sunscreen and bug spray each day of camp.

8-14 YEARS

Limited Space Available!

Register before April 30th for \$296!

Register after April 30th for \$329!

UWM at Waukesha Field Station; W349 S1480 S. Waterville Rd. Oconomowoc

HIGH SCHOOL MUSICAL THEATER CAMP



JULY 5-31, 2022
1:00-5:00 PM
Waukesha ONLY



This hands-on, participatory theatre camp is designed to provide stage struck high schoolers with an active, creative learning experience. Students will collaborate with working professional instructors and classmates as they rehearse and perform a stage musical: *Be More Chill*.

Our 2022 summer theatre camp is offered in-person on the Waukesha campus of UWM in the Lunt-Fontanne Theatre. This lively camp will include a variety of experiences around the creative process including; singing, acting, dancing and production. *Be More Chill* is the hilarious sci-fi tale of high school and one boy's quest to fit in. A Tony Award nominee from 2019, it follows the tale of an average American high schooler who finds out about a tiny supercomputer that promises to bring him everything he desires most: a date, an invite to the raddest party of the year and surviving life in his suburban high school. A fun, silly play that feels at times like a mash-up of Mean Girls and Little Shop of Horrors.

Students will receive special master class sessions with guest artists in small group settings. This theatre camp will provide students with experience in leadership, collaboration, and team building! Optional 3 college credits (CGS-CTA 131, Theatre Laboratory, FA) available to interested students for an additional fee.

Grades 9-12

See your talented instructor's bios online!

Performance dates are July 29-31. Students are required to attend.
No class Monday, July 4.

Register before April 30th for \$1079!
Register after April 30th for \$1199!

ENGINEERING & LEADERSHIP EXPLORATION



JULY 25-29, 2022
9:00 AM - 4:00 PM
Waukesha ONLY



High school juniors and seniors have an opportunity to see firsthand the many career options that a degree in engineering has to offer! This is the perfect venue for high school students that want to become an engineer but are not sure what exact field they would like to pursue due to the many facets of engineering that are available. This is a challenging, fun, and hands-on introductory experience that exposes high school students to various engineering disciplines relevant to their interests. Students will learn about the exciting field of engineering from local engineers and engineering students, participate in engineering design projects and visit local schools and businesses to observe engineers at work. For one week, we incorporate local company site visits, tour their facility, and speak with their engineers to learn what their day entails and how they landed their job position. We will explore civil, electrical, industrial/manufacturing, mechanical, material and architectural engineering. This is an excellent resource for students to network and build connections for future internship opportunities!

Partnering companies and organizations from 2021 included:

- Zimmerman Architectural Studios
- Midwest Engineered Systems
- SPX Transformers
- MSOE
- Generac
- UWM Freshwater Sciences

**Grades
11 & 12**

Take the course to receive one
college credit for \$499

**Take the course for experience and
education for \$299**

SUMMER STEAM UNIVERSITY



Washington
County

Waukesha

Continuing Education &
Professional Development

Washington County:

400 S University Dr
West Bend, WI 53095
262-335-5208

Waukesha:

1500 N. University Dr.
Waukesha, WI 53188
262-521-5460

continuing-ed@uwm.edu

[www.uwm.edu/generalstudies/
continuing-education](http://www.uwm.edu/generalstudies/continuing-education)