

Summer Camp 2024

Camp	Description
Medical Superheros	Healthcare heroes UNITE! Step into a world of human and animal health, science and experiments. Over an immersive three day experience, explore the realms of Exercise science, Biomedical science, Animal veterinary science and PreNursing. Guided by healthcare heroes themselves, trainees will participate in medical, hands-on learning experiences, team building and a final day McMudder obstacle course. Join us to find where your healthcare super powers lie
Engineering	Students who sign up for Engineering will build an actual working Amphibious 6-Wheeled ATV from the ground up. When the ATV is completed they will be given the chance to ride in it and learn how to drive it! During the project, students will be exposed to shop safety, working with hand tools, 2-stroke engines, variable speed clutches, sprockets, chains, and how changing the number of teeth on a sprocket affects the speed and torque of the ATV. Learning to work as a team is also a large part of the project. This project is very hands-on.
Robotics	Step into the world of robotics at our dynamic summer camp! Young engineers will dive into hands-on learning, crafting, coding, and piloting their own robots. Guided by expert instructors, campers will explore mechanical design, electronics, and programming fundamentals. Through exciting challenges and competitions, they'll put their creations to the test, honing their problem-solving skills and teamwork. Whether aspiring engineers or curious minds, our camp offers an immersive experience where creativity and innovation thrive. Join us for an unforgettable summer of building, coding, and driving robots!
Software Development (20 students)	<p>Explore Game Creation at Our 3-Day Beginner's Game Jam! Dive into the exciting world of programming and game development this summer at our beginner-friendly 3-Day Game Jam! Open to young enthusiasts in middle school. This camp introduces the basics of coding and game design using the easy-to-learn Godot Engine. Take the first steps in creating great games. No prior experience? No problem!</p> <p>What a Great Opportunity:</p> <ul style="list-style-type: none"> ● Expert Guidance: Our passionate instructors make learning to code and develop games fun and accessible. ● Hands-On Learning: Participants will create their very own video game from scratch, developing valuable tech skills along the way. ● Teamwork & Creativity: Work with peers to brainstorm and bring your game ideas to life in a supportive environment.
Trades Camp (32 students)	Explore an engaging summer camp at MCCTC, blending two dynamic CTE labs: electrical and construction. Participants will immerse themselves in hands-on

	<p>activities, spending a day each on wall and window framing techniques, the fundamentals of residential electrical wiring, and mastering drywall installation and finishings. Join us for an enriching experience where learning meets practical application in the fields of building and electricity!</p>
Aviation	<p>Students that sign up for the Aviation Maintenance Camp will be exploring different maintenance procedures and techniques that aircraft mechanics use in the field every day! During the camp, we will be doing multiple hands-on aviation maintenance projects like sheet metal riveting and creating a fabric wing. Students that participate in this camp will be able to take home their projects at the end of camp. Don't miss out on this awesome, in-depth opportunity to investigate the aviation field!</p>
Advanced Manufacturing	<p>Students that sign up for Advanced Manufacturing will learn to manually create a CNC Mill program (input, edit, delete, copy/paste), how to set tool offsets, work offsets, and the safety procedures that are required to operate the CNC Mill safely.</p>
Welding	<p>Students in the welding camp will work on taking torches apart and putting them back together safely while putting them to use in the lab. Students will go over safety in class before starting! They may even learn to strike an arc in the lab, and run stringer beads.</p>