



Grand Canyon Council BSA
Council Service Center
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DRONE CAMP

EXPLORE, ENGINEER, AND EVOLVE

PARENT GUIDE



DRONE FLIGHT SCHOOL

DRONE FLIGHT SCHOOL— EXPLORE, ENGINEER, AND EVOLVE

CAMP GERONIMO'S DRONE FLIGHT SCHOOL — EXPLORE, ENGINEER, AND EVOLVE

Drone Flight School is a high-end STEM program offered by the Grand Canyon Council, BSA. This is not your grandfather's summer camp experience—participants will learn real-world STEM applications, explore the business and industry of drones, and master technology unavailable to most youth today. Interested youths will become proficient in technical skills such as coding and racing drones, but most importantly, these youth will have an incredible opportunity to learn and grow in a community of fellow adventurers. Our Camp Counselors are trained to mentor participants and create a collaborative environment designed to build strong relationships, encourage independence, and allow each camper to share unique gifts and talents in an outdoor classroom.

WHY SHOULD EVERY YOUTH GO TO SUMMER CAMP?

A great camp experience involves making new friends and offering youth opportunities to practice the skills needed to build and maintain relationships. For most campers, this social function of camp is central to their experiences, unlike school where academic outcomes drive most of their daily activities. Adults who went to camp often report that camp was critical to developing their ability to be open with others and create friendships over a short period.

The social environment at an overnight camp can be intense, but challenge, conflict, and adversity are essential for growth. Great camps like Geronimo have well-trained, caring adults able to guide youth through challenges, providing opportunities to practice communication, empathy, and compassion – key components of maintaining positive relationships. Friendships are made between campers from different cities, states and even countries!

<https://www.azoutdoored.org>

DRONE FLIGHT SCHOOL OBJECTIVES:

- Real-world STEM application for the next generation of engineers, scientists, makers, and hobbyists
- Education of the industry and the future of drones
- Exploration of the business and capability of drones
- The entrepreneur's mindset behind drone technology
- Flight control, coding and agility racing and challenges
- Low Instructor to student ratio
- Adult-led instructors with experience and passion working with students and STEM
- Lesson plans encourage students to work with-in small teams to achieve common goals
- Drone safety and the social responsibilities of flying drones
- Curriculum specifically designed for both the novice and experienced drone enthusiasts



DRONE FLIGHT SCHOOL

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CAREER EXPLORATION

Drones have found a vast number of applications in different sectors ranging from military to photography. Some careers that incorporate drone technology:

- Law Enforcement
- Safety Inspections
- Filming and Journalism
- Shipping and Delivery
- Drone Racing
- Archaeological Surveys
- Geographic Mapping
- Agriculture
- Military Uses
- Search and Rescue
- Wildlife Monitoring
- Weather Forecasting

YOUR WEEK AT DRONE FLIGHT SCHOOL

Sunday —

Participants will get settled into their campsite, meet the staff, and get to know the other participants by playing a series of challenge course games.

Monday-Friday —

On Monday Morning, participants will be given their Modit™ Drone System. This Drone isn't a typical "buy and fly" drone. Instead, participants will start from scratch and build their own drone utilizing our staff and application based technology. The participants will embark on a journey that teaches not only how to fly, but how all the parts work together to enable it to fly. As the youth learns new information and builds increasing flight proficiency, new challenges and new drone capabilities will be unlocked. All participants will master the Beginner Level skills and we will cover most of the Intermediate Level Skills.

BEGINNER LEVEL

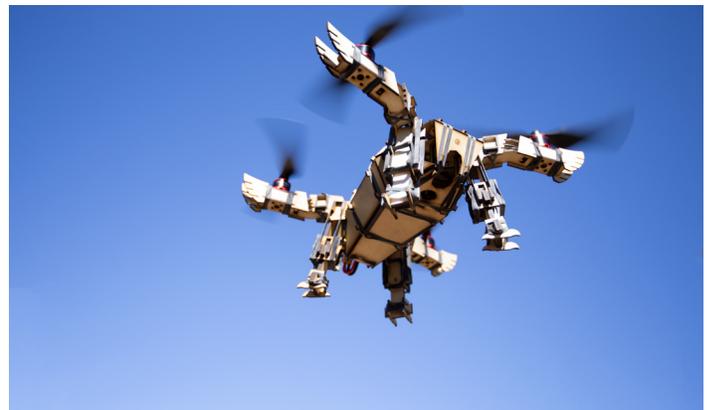
- Essential Drone Knowledge (e.g., history, engineering, how to fly, industry)
- Planning a Drone Flight
- Basic Flight Maneuvers
- Beginner's Competition
- Careers & Jobs in UAVs

INTERMEDIATE LEVEL

- Intermediate Flight Maneuvers
- Intermediate Race
- Drone Physics and Engineering
- Electrical Design for Drones
- Mechanical Design for Drones
- Propulsion Design for drones
- Software Design for Drones
- Sensor Engineering for Drones
- Communications for Drones
- Basics of Drone Photography
- Basics of Drone Videography
- Introduction to Surveying with a Drone
- Introduction to Drone Game Design

FRIDAY-SATURDAY

The program will conclude with a graduation party on Friday afternoon and each participant will be provided with information about opportunities to continue their journey. Our plan is to provide year-round gatherings to learn more about advanced flight maneuvers, automation, search and rescue, surveying, and of course racing competitions!



SESSION DATES AND PRICING

DRONE FLIGHT SCHOOL— EXPLORE, ENGINEER, AND EVOLVE

SESSION DATES

This Pilot Program will run for 2 sessions. Select one of the dates below and register at:

<https://www.azoutdoored.org/>

Session #1: June 5 – 11

Session #2: June 12 – 18

PRICING

The Drone Flight School costs \$700 and includes the following:

- Meals and lodging at Camp Geronimo
- Program fees including a Drone System (\$300 value)
- Expert instruction
- Camp T-shirt

Participants not registered in Scouting will need to pay a one-time membership fee of \$100 that includes general liability, secondary health insurance coverage, and access to the many programs offered by the scouting program.

REFUND POLICY

In case of the death of an immediate family member, sickness, or injury prior to attending camp, or military transfer we will refund all but \$150 of fees paid when verified by a physician, military commander, or such official. Participants that leave camp during the session, for any reason, will not receive a refund. Our Council Camps strive to provide the very best program. We sign contracts with staff and vendors in February. Reservation cancellations after May 1st undermine our ability to provide this quality program. Reasons such as vacation schedule, summer school, and last-minute changes of mind are not acceptable reasons for refunds.



CAMP DETAILS AND CHECK-IN

DRONE FLIGHT SCHOOL— EXPLORE, ENGINEER, AND EVOLVE

CAMP GERONIMO'S HOUSING AND DINING

Camp Geronimo is located north of Payson in the shadows of the magnificent Mogollon Rim on nearly 200 acres of forest and meadows. Facilities may be viewed at: www.azoutdoored.org

Due to the COVID-19 pandemic, we are requesting that all participants bring a tent for the week. If your son or daughter does not have a tent, please let us know and we will provide one for you.

The Sodexo Hospitality Group provides all meals at the Geronimo Dining Hall. The menu is approved by a dietitian and can be found [here](#).

MAILING INFORMATION

Mail is delivered to camp once a day. Post mail 3-5 days in advance of camp arrival day to ensure a timely delivery. For all mail:

Youth Name - Session #
CAMP GERONIMO
2599 W. Webber Creek Road
Payson, AZ 85541

CAMP CONTACT INFORMATION

Camp Geronimo

2599 W. Webber Creek Road
Payson, AZ 85541

Emergency Contact Number: 928-474-4688

Sunday: 1:00pm – 4:30pm (Check in)

Monday - Friday: 8:00am – 11:50am
1:30pm – 5:00pm

Saturday: 7:00am – 10:00am (Check out)

Service Center Office

8840 E Chaparral Rd. Ste. 200
Scottsdale, AZ 85250

Monday - Friday: 9:00am – 5:00pm

For registration questions call 602-955-7747

Trading Post

The trading post will be open at convenient hours every day during camp. The Trading Post will carry camp t-shirts, patches, souvenirs, merit badge pamphlets, craft supply materials, soft drinks, candy, and a wide selection of outdoor supplies.

CHECK-IN

All participants should arrive at Camp Geronimo on Sunday between 1:00pm and 4:00pm. A colored wristband will be provided for each participant during check-in. These serve as a meal ticket and identifier. Program representatives of Drone flight School will meet youth and parents at check-in to answer questions and give additional instructions.

Participants will need to bring the following forms: *All participants must submit a personal [annual health and medical record](#) upon arrival at camp.*

1. BSA Health and Medical Record: [Annual Health and Medical Record](#)
2. A copy of the Family Insurance Card attached to the medical form.
3. [Prescription Medication Dosing Form](#)
- Filled out for any medications that are brought to camp.
4. [COVID At Risk Statement](#)
5. [Pre-event Medical Screening Checklist](#)
6. Special Needs: Please notify our staff at gcc.program@scouting.org if your child has food allergies or other special needs. Please be sure to share this information with our staff during the check-in process.

CHECK-OUT

Drone Flight School Program will end on Friday afternoon with a graduation party that starts at 2:00. Please join us to share in their accomplishments. Youth are also welcome to stay until Saturday morning and catch the closing campfire on Friday night. Please let us know when you plan to pick your child up.

PACKING LIST

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PACKING

Preparing for camp is an easy process, but it does require planning ahead. The following check list is designed to guide so you are comfortable at camp.

PLEASE LEAVE AT HOME:

- Gaming devices, or expensive electronics
- Matches, lighters, hot sparks
- Laser pointers
- Bicycles
- Fireworks
- Alcoholic beverages or illegal drugs, smoking devices or vapes
- Sheath knives
- Personal firearms or projectile items such as wrist rockets
- Pets – Service dogs always welcome!



CAMP PACKING CHECK LIST

LABEL EVERYTHING

CLOTHING:

- 5 tee shirts
- Fleece or wool vest or jacket
- Rain jacket
- 2 shorts
- Swimsuit
- One pair long pants
- Socks and underwear
- Wide brimmed hat
- 2 pairs of shoes—tennis shoes, hiking shoes
- Sandals for the shower house or lake

PERSONAL ITEMS:

- Bandanna
- Towel and wash cloth
- Toiletries: toothbrush, paste, brush/comb, soap, shampoo, deodorant, insect repellent, and feminine hygiene products.
- Shaving gear
- Reusable water bottle
- Flashlight
- Lip balm
- Sunscreen
- Sunglasses—Polarized
- Waterproof watch
- Sleeping Bag
- Cot or Sleeping Pad
- Day pack
- Tent
- Spending money for Trading Post
- Smart Phone (Android or iOS) to use with Drone Application

HEALTH AND MEDICAL

DRONE FLIGHT SCHOOL— EXPLORE, ENGINEER, AND EVOLVE

HEALTH LODGE

The Camp Health Lodge is staffed 24 hours a day by qualified medical personnel.

For insurance purposes and for the health and safety of all participants, all accidents and illnesses, no matter how minor, must be reported to the Health Lodge and recorded. Arrangements have been made with the local rescue squads and hospitals to handle any medical emergencies.

MEDICAL FORM

Any person staying overnight must submit a Personal Annual Health and Medical Record upon arrival at Camp.

Please understand that the BSA Annual Health and Medical Record is the only medical form recognized by Scouting—sport, military, or other medical records may not be substituted.

The annual health and medical record is provided as a fillable PDF [Annual Health and Medical Record](#), and parents are encouraged to fill it out on their computer, then print the record (rather than printing the record and filling it out by hand). Doing this will improve the readability and accuracy of each member's medical information. **Please bring a paper copy with you to camp.**

SPECIAL NEEDS/FOOD ALLERGY REQUESTS

Please communicate special needs prior to arrival at camp. On Sunday, any participants with special dietary needs should visit with the dining hall staff to discuss accommodations that the camp can make for their diet.

MEDICATION POLICY

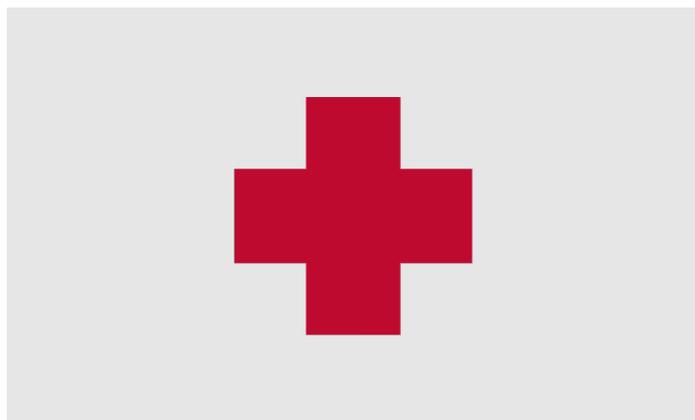
Grand Canyon Council requires that all prescription and over the counter (OTC) medications be stored under lock and key, except when in the controlled presence of health care staff or Adult Leader responsible for the administration and /or dispensing of medications.

- Emergency medications such as inhalers, Epipen's, and nitro should be maintained on the patient's person.
- Refrigerated medications may be stored at the Health Lodge or in the campsite if secured under lock and key.
- All medication should be in a container issued by a pharmacist with the medication name and strength, the dose and dose frequency clearly marked on the container.

PRESCRIPTION/MEDICATION DOSAGE FORM

All participants taking medications must fill out the [Prescription Medication Dosing Form](#) prior to arrival at camp.

Please use one form for each participant and list the medication, dosage, and dosage schedule shown on the prescription.



CAMP SAFETY

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WILDLIFE SAFETY

Youth have an opportunity to observe many types of wildlife that includes deer, bats, raccoons, birds, skunks, turkey, snakes, coyotes, amphibians, and bears. It is wise to remember that these animals are the permanent residents of the backcountry.

Therefore, treat all animals with respect and observe from a distance. Store all food in a secure place.

Do not follow, feed, tease, or handle wildlife. If you discover a snake or an animal that is behaving strangely, please notify the camp staff immediately.

Please leave food and sodas at home! Do not eat food and drinks in cabins. Make sure your youth keep their sleeping bags free of food smells by changing their clothes before going to bed and washing hands and faces. Please haul all bagged trash to dumpsters daily.

EMERGENCY DRILL

On Sunday evening, a siren will sound signaling the emergency drill. Please report to the campfire ring to receive an emergency briefing.

VISITING CAMP

Visitors are not allowed when the camp is operating under Communicable Disease Protocols during the era of COVID-19.

YOUTH EARLY RELEASE POLICY

1. Verification must be made to assure that the person requesting release is acting as the legal parent or guardian or under the direction of the legal parent or guardian.

Verification may be done by the following:

- Presentation of proper identification matched with the name listed as the legal parent or guardian on the youth's medical form.
- Contact via telephone with the legal parent or guardian. The telephone number used may be supplied by the Scoutmaster or obtained from the medical form.

2. It is understood that any person who requests the early release of a youth will abide by the policy set forth above and completes the early release form prior to the release of the youth.

3. It is understood that a youth will never be released to another youth under 18 years of age without verified permission from the legal parent or guardian.

FREQUENTLY ASK QUESTIONS FAQs

DRONE FLIGHT SCHOOL— EXPLORE, ENGINEER, AND EVOLVE

WHY DID GERONIMO CHOSE TO USE THE MODIT™ DRONE SYSTEM

The Modit™ Drone System is designed to build increasing flight proficiency among participants over time. They will start at the Beginner Level and learn the basics. At these early stages, youth are unable to access advanced features and high-performance modes so that they don't get ahead of their skill-set. As participants master the beginner level, they are able to move to the Intermediate Level, unlocking more flight modes and capabilities. From there, they can continue through to the Advanced and Expert Levels that offer so many cool opportunities. The units are also fully customizable and we have some really amazing modifications in mind for the future.

This System contains a user assembled airframe, all the electronics needed to operate the drone, including a battery and battery charger, and a Radio Controller hand-held device. Key Features include:

- A 4-propeller quad-copter that is capable of high performance maneuvers, speeds up to 15 mph, and a flight range over 1,000 feet from the operator
- A built in GPS for position tracking and flight stabilization.
- Automated functions such as auto take off, landing, return to takeoff point.
- An integrated camera capable of streaming video of what the drone sees and taking still photos.
- The Modit™ Drone System can be customized by the user and it is only drone on the market that can be repaired by the user after serious crashes.

A phone-based Modit™ application acts as the ground station for the drone, including displaying video from the on-board camera, drone information and sending commands to the drone from the user.

This application also accesses a library of training materials and instructions on everything from how a drone flies, to how to assembly and build a drone, to learning flight maneuvers, etc.



A HEALTHY CAMP BEGINS AND ENDS AT HOME!

A healthy camp really does start at home.

Here are some actions you can take to help your child have a great camp experience.

1. If your child is sick, stay at home - If your child is showing signs of illness such as running a temperature, throwing up, has diarrhea, nasal drainage and/or coughing/sneezing, keep the child home. This reduces the spread of illness at camp and supports your child's recovery. Know your camp's policy about illness and camp attendance.
2. A Scout is clean - Teach your child to sneeze/cough in his/her sleeve and to wash his/her hands often while at camp, especially before eating and after toileting. If you really want to achieve impact, teach your child to accompany hand washing with another behavior: keeping their hands away from their face.
3. Let us know how we can support your child's health needs - If your child has mental, emotional, or social health challenges, talk with a camp representative before camp starts. Proactively discussing a camp's ability to accommodate a child can help minimize – if not eliminate – potential problems.
4. Inform us of any unique nutritional needs ahead of time - Should your child need a particular nutrition plan because of allergies, intolerances or a diagnosis (e.g., diabetes), note these on the Health History form but also contact the camp to make sure (a) they have noted that need and (b) the camp can address it. Discuss how your child will receive appropriate meals and snacks then explain that to your camper. Should your child be uncomfortable with the plan, arrange for a camp staff member to assist/monitor the process until the child is comfortable.
5. Pack closed toed shoes - Make sure your child has and wears appropriate closed toed shoes for activities such as soccer and hiking, and that your child understands that camp is a more rugged environment than home. Talk with your child about wearing appropriate shoes to avoid slips, trips and falls that, in turn, can result in injuries such as sprained ankles.
6. Dress in layers - Send enough clothes so your child can dress in layers. Mornings can be chilly and afternoons get quite warm. Dressing in layers allows your child to remove clothing as s/he warms while still enjoying camp.
7. Be well rested before and during camp - Fatigue plays a part in both injuries and illnesses – and camp is a very busy place! If your child is going to a day camp, be sure they get enough rest at night. If the child will be at a resident camp, explain that camp is not like a sleepover; they need to sleep, not stay up all night!
8. “Be Prepared” for sun protection - Remember to send sunscreen appropriate to the camp's geographic location and that your child has tried at home. Teach your child how to apply his/her sunscreen and how often to do so.
9. Bring a reusable water bottle - Instruct your child to use it and refill it frequently during their camp stay. Staying hydrated is important to a healthy camp experience, something your child can assess by noting the color of their urine (“pee”); go for light yellow.
10. Help your youth understand who to talk to if they have a concern - Talk with your child about telling their leaders, Health Officer, the nurse, or camp director about anything that is troublesome for them at camp. These leaders can be quite helpful as children learn to handle being lonesome for home or cope with things such as losing something special. These helpers can't be helpful if they don't know about the problem – so talk to them.
11. Let us know how we can help - Should something come up during the camp experience or afterward — contact the camp's representative and let them know. Camps want to partner effectively with parents; sharing information makes this possible.

Prescription Medication Dosing Form

Grand Canyon Council – Boy Scouts of America

Name of Participant: _____ Age: _____ Unit Number: _____

Summer Camp Session/Date: _____ Campsite: _____

Instructions:

- Each participant taking medications should have a separate form
- Ideally, the form should be completed by the Adult planning to administer the medication.
- List each prescription medication the Scout is receiving separately.
- The unit health officer giving the medication should put their name or initials by the time at which the medication was given. If no medication is given, leave the space blank.

Medication Name and frequency of administration listed on the bottle		Medication given around Breakfast (7 - 8 AM)	Medication given around Lunch (12 - 1 PM)	Medication given around Supper (6 PM)	Medications given at bedtime
	Sunday				
	Monday				
	Tuesday				
	Wednesday				
	Thursday				
	Friday				
	Saturday				
	Sunday				
	Monday				
	Tuesday				
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	Thursday				
	Friday				
	Saturday				
	Sunday				
	Monday				
	Tuesday				
	Wednesday				
	Thursday				
	Friday				
	Saturday				

NOTE: If a Scout is receiving more than three medications, use an additional form.