



ACE ACADEMY STUDENT/PARENT APPLICATION

Please complete the following information and return to:

WinnAero ACE Academy c/o Laconia Airport

65 Aviation Way

Gilford, NH 03249-6680

603-556-9762; FAX 603-528-0428

ACE Academy tuition for 2023 is:

\$360 for 3 day mini sessions

\$300 for elementary sessions

\$540 for middle & high school sessions

\$620 for Drone Academy sessions

A \$50 Registration Fee must accompany this form and will be applied against the cost of tuition. Checks should be made payable to WinnAero.

Circle the session you wish your child to attend.

Week 1 Mini Sessions:	July 5-7, 2023	MS Girls Only	Systems Tool Kit/Orbital Mech.
		HS High Altitude Effect on the Human Body	
Week 2: July 10-14/2023	Elem Mornings	MS Air Traffic Control	MS Emergency Services
	Elem Afternoon	MS Engineering & Manufacturing	
Week 3: 7/17-21/2023	Elem Mornings	MS Space Academy	HS Drone Academy
	Elem Afternoons	HS Engineering & Manufacturing	

Student Information

Name _____

Home address _____

City, State, Zip _____

Home phone number _____

Parent/Legal Guardian (circle one) Information

Name _____

Home address _____

City, State, Zip _____

Home phone number _____

Cell number _____

Work number _____

E-Mail address _____

Student Personal Information

Age _____ Grade _____

Circle Tee Shirt Size Youth S Youth M Youth L Youth XL Adult S Adult M Adult L Adult XL

Date of birth _____

Career goals _____

US Citizenship (circle) YES NO (Citizenship may affect eligibility to participate in certain field trips. Alternative activities will be scheduled in these cases.)



Program Descriptions

3 Day Mini Session Academies Descriptions 2023

Middle School, Girls Only

Research has shown that many upper middle school girls remain quiet when boys are in the same STEM class. This session will provide girls with an opportunity to work with other like-minded individuals. Female instructors will also serve to provide positive role models for the girls so they can picture themselves in aerospace careers later in life. This session will be very similar to the regular five day coed middle school session for manufacturing/engineering.

High School, Systems Tool Kit (STK)/Orbital Mechanics

This session will introduce students to the software used by engineers to control and communicate with orbital spacecraft. This is a rapidly growing field as commercial space operations ramp up and more spacecraft constellations are placed in orbit. If there is a demand, more advanced sessions will be offered. High School,

High School, Effects on High Altitude Flight on the Human Body

This session will introduce students to the effects of high-altitude flight on the human body in Earth's atmosphere and in the micro-gravity environment of space. Students will become familiar with research and experimentation by the FAA, NACA, and the NASA NeuroLab Mission STS 90.

Aviation Academy Descriptions 2023

Entering Grades 3-5 or Ages 8-10

Elementary students meet for five morning sessions, 8:30 - 12:00 or five afternoon sessions, 12:30-4. Please select only one session. Activities at this level are geared to interest students in aviation & space science and technologies. Students will "fly" the flight simulators, receive an orientation flight and participate in a field trip.

Entering Grades 6-8 or Ages 11-13

These three academies are designed for middle school students and will be grouped by career interest. All academies will highlight piloting careers with students working in the flight simulator lab, flying orientation flights with an instructor in a single engine aircraft and other aviation activities. Guest speakers and field trips* are planned specifically for the career group the student selects: Air Traffic Control, Emergency Services, Aerospace Engineering & Manufacturing.

Entering Grades 9-12 or Ages 14-18

This academy is designed for high school students attending ACE for the first time. Piloting careers are highlighted with students working in the flight simulator lab, flying orientation flights with instructors in a single engine aircraft and a small helicopter. Guest speakers and field trips* are planned specifically for the career Aerospace Engineering & Manufacturing.



Unmanned Aerial Systems (UAS) Drone Academy 2023

Ages 16-18

This session is designed to introduce students to FAA UAS regulations and provide experience building and flying a small UAS/drone. Students will participate in orientation flights with instructors in a single engine aircraft and a small helicopter. Guest speakers and field trips* are planned specifically for the career as a UAS pilot. This session is intended for students with previous ACE or Civil Air Patrol experience.

Space Academy 2023

Entering Grades 6-9 or Ages 11-14

This session is designed for students interested in rocketry and space exploration. All activities highlight aerospace and related careers. Planned activities include: model rocketry (designing, building, safety and launching), astronomy and the space environment, spacecraft & space station design, current NASA missions, a field trip* and guest speakers.

*Participation in some field trip locations require students to hold US Citizenship. (Email for details)

All activities are based on prior ACE Academy schedules and are subject to change. Orientation flights conducted by other than ACE staff, (e.g. NHNG, Sky Bright, Emerson, C&R Helicopters) are subject to their scheduling priorities and are not guaranteed by the ACE Academy staff.