



Registration Information

Each academy is designed to accommodate 10 students. Registration is open until an academy is filled. Tuition for full day middle and high school academies is \$450. Tuition for full day Drone Academy is \$550. Tuition for half day elementary academies is \$250.

Pictures and testimonials from past participants are on the WinnAero web site under the **Educ**ation pull down menu and on Facebook

Applications and Tuition information is available at <http://www.winnaero.org/>

We begin awarding Financial Assistance on May 1, 2022 and continue accepting requests until all funds are assigned.

Return Applications to:

**WinnAero ACE Academies
Laconia Airport
65 Aviation Way
Gilford, NH 03249**

Our Supporters & Sponsors

- American Institute of Aeronautics and Astronautics
- American Radio Relay League - ATS Precision
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- Emerson Aviation - EPTAM
- FAA AVSED & ATC
- Granite State Airport Managers Association
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- Greater Laconia Children's Auction Fund
- Jacobs Engineering - Laconia Airport Authority
- Manchester/Boston Regional Airport
- Meredith Village Savings Bank - NASA
- Mt. Washington Observatory Discovery Center
- National Air Traffic Control Association
- National Association of Rocketry
- NH Air National Guard
- NH Department of Safety ARFF
- NH Department of Transportation
- Plymouth State University
- Scotia Technology - SI Drones - Sky Bright Aviation
- Anthony & Gladys Sakowich Foundation
- Technology Education Concepts
- Titeflex Aerospace - US Coast Guard
- US Air Force - WinnAero

WinnAero/FAA



ACE Academies

**Aerospace Career Education
for grades 3 through 12
July 11-15, 2022
July 18-22, 2022**

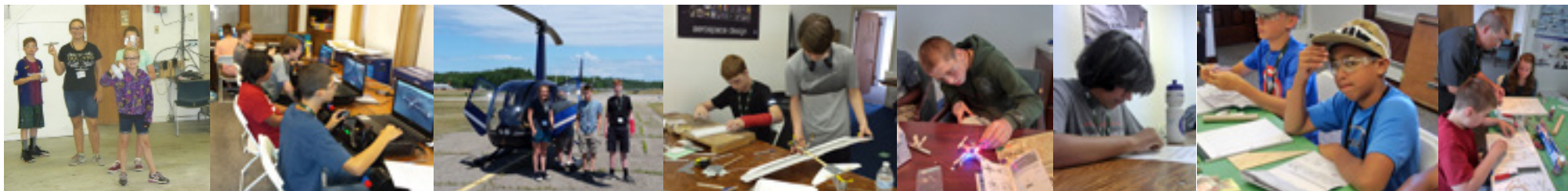
See inside panels for further information

Financial Assistance available



Class of 2021, Week 3
Laconia Airport, NH





Welcome

Welcome to WinnAero's ACE Academies, co-sponsored by WinnAero, Laconia Airport Authority and the FAA. The purpose of the Academies is to make students aware of the variety of careers available in the aerospace industry. These activities can only be made possible with strong support and encouragement from the aerospace community throughout New Hampshire. Please let our supporters and sponsors know that their support of youth in aerospace is greatly appreciated.

The Big Idea

When students hear the words "Aviation and Aerospace" they think of pilots and astronauts. The career fields of Aviation and Aerospace include hundreds of careers beginning on the surface of the Earth, extending into the atmosphere and reaching through the solar system to the edge of the universe.

Goals

- To use aerospace activities as the vehicle to demonstrate the interrelationships of STEM subjects: science, technology, engineering, and math,
- To develop an awareness of the variety of careers in the aerospace field,
- To encourage students to explore a variety of aerospace careers,
- To provide hands-on experiences for students as they use technology related to aerospace careers.

ACE Academies for 2022

All academies offer a mix of hands-on work, speakers, field trips, flight simulation and orientation flights. Groups are divided by career strands. Activities are subject to change due to availability and/or weather.

Three Elementary Aerospace Academies

Students meet for five mornings. Activities at this level are geared to interest students in aviation & space science and technologies.

E11:Grades 3-5; July 11-15; 8:30-12 noon

E12:Grades 3-5; July 11-15; 12:30-4

E21:Grades 3-5; July 18-22; 8:30-12 noon

Three Middle School Aviation Academy Strands

Students meet for five days. Activities highlight aviation and related careers.

The following career strands will be offered:

Grades 6-8; July 11-15; 8:30-4

M13:Pilot & Air Traffic Control

M14:Pilot & Search/Rescue & Emergency Services

M15:Pilot & Aerospace Engineering/Manufacturing

Two High School Aviation Academy Strands

Grades 9-12; July 18-22; 8:30-4

Students meet for five days. Activities highlight aviation and related careers.

The following career strands will be offered:

H23:Pilot, & Aerospace Engineering/Manufacturing

H24:Drone/UAS Academy

Space Academy

All activities highlight aerospace and related careers. Topics include model rocketry, astronomy and the space environment, spacecraft & space station design.

M22:Grades 6-9; July 18-22; 8:30-4

WinnAero ACE Faculty

All faculty members are current or retired STEM educators serving the roles of Director and Instructor. Licensed pilots, Civil Air Patrol educators and other aerospace professionals round out the instructional staff.

Dan Caron, Director, Technology/Engineering Education teacher Gilford HS, NHTEA Teacher of the Year, AFA Teacher of the Year, CAP Teacher of the Year

Andrea Damato, Instructor, Technology Integration teacher at Gilford Middle School

Paul Gelinis, Instructor, Technology/Engineering Education teacher at Woodbury MS in Salem, NHAFA Teacher of the Year

Christine Landry, Instructor, Technology/Engineering Education teacher (retired), NHTEA Teacher of the Year

Karen Mitchell, Instructor, former Science/Math teacher at Laconia Christian Academy, NHAFA Teacher of the Year, Certified Flight Instructor

Robert Rotier, Instructor, Engineering/Physics teacher (retired), NHAFA Teacher of the Year

Julie Sicks-Panus, Instructor, STEM teacher at Plymouth Elementary School, NHTEA Teacher of the Year, NHAFA Teacher of the Year, CAP Aerospace Educator of the Year

