

**The Delaware AeroSpace Education
Foundation
IS PROUD TO ANNOUNCE
The 2006
Delaware Aerospace Academy**

June 26th – June 30th

9 AM to 4 PM at the University of Delaware
Destination Sky & Beyond (entering 3rd or 4th)
Destination Space (entering 4th or 5th)
Destination Flight (entering 5th or 6th)
Destination Orbit (entering 6th, 7th or 8th)

Fee: \$250 A \$50 non-refundable application fee is included in this amount

July 8th – 13th

Overnight at the University of Delaware
Destination Moon (entering 7th, 8th or 9th)
Destination Mars (entering 8th, 9th or 10th) -Full

Fee: \$500 A \$50 non-refundable application fee is included in this amount

NEW July 17th – 21st 7 and July 31st – Aug. 4th

9 AM to 4 PM at the Environmental Outpost
585 Big Oak Road
Smryna, Delaware 19977
Visit www.dasef.org for directions
Destination Dinosaur (entering 2nd or 3rd)

Fee: \$250 A \$50 non-refundable application fee is included in this amount

All cadets will receive an academy T-shirt, handbook, and resources about the new high-tech world they are entering.

The **Delaware AeroSpace Education Foundation (DASEF)** exists to inspire and educate the people of the Delaware Valley in the areas of Math, Science, Technology, and AeroSpace through the use of our academies, presentations, professional development, events and activities and our new **Innovation, Technology and Exploration Center (ITEC)**.

Since 1990, the objective of the DAA is to provide hands-on training and experience in aerospace-related activities and fields. Throughout the week, cadets are continually challenged to think, design, solve, build, and work cooperatively. All academies are designed to integrate the study of science, technology, and mathematics using aerospace education as the unifying framework.

Full Day Academies

1. Destination Sky & Beyond (entering 3rd & 4th) features a week of creative problem solving challenges including Powers of Ten, Millions of Stars, planets, space habitats, and rovers. In addition, cadets participate in exciting activities based on the physics of flight, leading to a training flight in the Boeing Simulator. **Fee: \$250**

Sky & Beyond Cadets pilot a Boeing Elementary Simulator after learning flight dynamics.

2. Destination Space (entering 4th & 5th) features a series of experiments conducted in a space laboratory like NASA's "White Room. The results and solutions could have the potential to benefit the human race. Cadets will discover and learn about concepts from ground to space including simple machines, engineering, circuitry, science, weather and computer training. Plan on constructing and launching a bottle rocket. **Fee: \$250**

3. Destination Flight (entering 5th & 6th) focuses on an in-depth study of the principles of flight and cutting edge studies of the FAA & NASA aeronautic programs. Cadets will apply their acquired knowledge as they operate our advanced flight simulators & hovercraft. **\$250**

4. Destination Orbit (entering 6th, 7th & 8th) includes the following areas of study: Space Architecture, Living in Space, Physics of Space, Rocketry, and Planetary Studies. Highlights of the week include a trip to Dover Air Force Base, a presentation by ILC Dover (the manufacturer of NASA's space suits) and construction of a model rocket that is launched on the final day. **Fee: \$250**

5. Destination Dinosaur (entering 2nd and 3rd) will be the inaugural academy at the Outpost on our new site in Smryna, DE. Children will participate in a dinosaur dig in 'The Pit'. Bones will be excavated and assembled. Different species of dinosaurs will be studied using creative approaches and activities. **Fee: \$250**

Hands-on Learning: In all of the academies, cadets design and build structures such as space and weather stations, planes, and airports. Engineering and construction skills are used in all levels.

All of the academies focus on cooperative learning, team building activities and leadership skills.

Overnight Academies: July 8th - 13th

5. Destination Moon (entering 7th, 8th & 9th) is an overnight academy held at the University of Delaware. Cadets will enjoy lessons in crystal development, advanced rocketry, remote sensing, robotics, computer simulation, composite materials, and telescope building.

Field trips are planned to Dover Air Force Base, ATK Elkton LLC and the Center For Composite Materials. **Fee: \$500**

Cadets study the performance of a model rocket engine at ATK Elkton Company, LLC.

6. Destination Mars (entering 8th, 9th & 10th) is an overnight academy held at the University of Delaware. During the academy, cadets will conduct Mars' related experiments and take part in a computer simulation. They will assemble a space station underwater, build a magnetic levitation vehicle, construct and launch a rocket made from spare parts, design a rover and simulate astronaut training.

Cadets hear from experts on Mars and take a field trip to the Iron Hill Park. **Fee: \$500**

2006 Academy Application

Please mark your choices: June 26th – 30th

Full Day Academies

Destination Sky & Beyond Destination Space
Destination Flight Destination Orbit

Overnight Academies

Destination Moon & Mars July 8th – July 13th

Full Day at the Outpost in Smyrna, Delaware

Destination Dinosaur July 17th – 21st

Destination Dinosaur July 31st – Aug. 4th

Extended Care AM PM

Student Information:

Student's Name _____
First MI Last

Sex: Male Female Birth Date ____/____/____
month day year

Roommate request (overnight only): _____

Entering Grade: _____ School _____

Student SS# (Needed for Field Trips) _____

Parent/Guardian Information:

Names: _____ and/or _____

Night Phone: (____) _____

Day Phone: (____) _____

Address _____

City, State, Zip Code: _____

Other Fee Information

Extended Day Care
8 AM to 9 AM and/or 4 PM to 5 PM
\$45 for AM \$45 for PM (\$90 for both every day)

For your records, the Tax ID # for DASEF is 51-0325362.

Fee Calculations: Please fill in the appropriate amounts

Academy Fee: _____

(includes \$50 Non-refundable registration fee)

Before/After Care: + _____

Total = _____

Amount Enclosed - _____

Amount Due on or before June 16 = _____

Checks payable to: Delaware Aerospace Academy

A completed application and a **\$50 non-refundable fee** are required to reserve a space in a session. Applications accepted until start date or until all academies are full.

Scholarships: A limited number of need-based scholarships are available upon request. Deadline is 4/30. **Scholarships will reduce fees but will be exclusive of the initial \$50 application fee.**

No refunds after the academies begin.

For your Records: Amount Paid _____ Amount Owed _____

Questions on registration, due dates, or scholarships should be mailed to the Academy or call **(302) 738-7749**.

Mail application and payments to:

Delaware Aerospace Academy

P.O. Box 125

Bear, DE 19701-0125

Cadets will be randomly assigned to wings unless we are notified before June 1. No exceptions.

Dr. Stephanie M. G. Wright, President of the Delaware AeroSpace Education Foundation heads the staff of the Academy. Talented experts in a cooperative learning experience supplement our excellent staff of teachers and young people. Lessons focus on applied learning through problem solving. Students learn in small groups, emphasizing the teamwork necessary in the real world.

Acknowledgements

DASEF would like to thank the following organizations and businesses for their generous support.

- DASEF Board, Advisory Council & Honorary Board
- ATK Elkton Company, LLC
- American Association of University Women, Seaford
- Barbecane Thornton
- Boeing Defense & Space Group
- Capital City Rotary club
- Christina Educational Enrichment Fund
- Delaware Aeronautics Administration/DelDoT
- Delaware Space Grant Consortium
- Dover Air Force Base
- Dupont Company
- ILC Dover, Inc.
- Iron Hill Museum
- NASA Headquarters & Goddard Space Flight Center
- Newark Century Club
- Officers' Spouse Club
- PNC Bank
- The Fund for Women
- The Christmas Shop
- U of DE – C.C.M, Engineering and Physics Departments
- W.L. GORE Associates, Inc.



Delaware AeroSpace Academy
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