

OBAP RICHMOND ACE ACADEMY 2023



DATE: JUNE 19TH – 24TH



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Building the STEM Pipeline of Talent



VCU

College of Engineering

About OBAP Richmond ACE Academy

The Organization of Black Aerospace Professionals ACE Academy is a nationally recognized program co-sponsored by the Federal Aviation Administration. (FAA) and the National Black Coalition of Federal Aviation Employees (NBCFAE).

The purpose of Aviation Career Education (ACE) is to offer first level exposure to the aviation industry by providing aviation career exploration for middle and high school students. Academy participants learn about aviation history, theory of flight, and other aviation related subjects. Students will have the opportunity to go on field trips to aviation facilities, museums and participate in other hands-on activities designed to give students a total aviation experience.

Overview

The Richmond ACE program is designed to expose youth to the wide variety of career opportunities in aviation. The goal is to provide an opportunity for students to receive hands-on experience of learning about the history of aviation, fundamentals of aerodynamics, the role of government in aviation, and the many careers available in the aviation industry.

Students will meet Aviation Professionals and participate in field trips to a variety of aviation facilities and educational institutions.

Activities

As a member of Richmond's ACE Academy, you will:

- Take an orientation flight in a Cessna or Piper aircraft
- Receive introductory aviation education
- Take field trips to different aviation-related facilities
- Be introduced to aviation history
- Fly a full-motion flight simulator, when available
- Learn the qualities of leadership
- Associate and work with other youth
- Meet professionals from the aviation community
- Operate unmanned aerial systems and remote-control vehicles, when available

Admission Requirements

Admission is offered to boys and girls from 13 to 18 years old who have an interest in learning about aviation and aerospace. Students must be physically capable of participating in all activities.

- High standards of behavior and self-discipline are expected, and students must abide by all academy regulations.
- Parents or guardians must attend an orientation before programs begin.

Location

VCU College of Engineering

401 W. Main Street, Room

Richmond, VA 23284

Contact Information

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Date	Time	Activity
Saturday June 17th	1400 – 1530	Parent/Guardian Brief
Monday June 19 th	0800 – 0830	Drop Off/ Breakfast
	0830 – 0900	Welcome/General Safety Briefing/Meet the Team Introduction/Ice Breaker Exercise
	0900 – 0945	Lesson: History of Flight & Pioneers in Aviation Lesson
	0945 – 1000	Break
	1000 – 1100	Lesson: Aircraft Structure & Components
	1100 – 1200	Lesson: Building Aircraft
	1200 – 1300	Lunch
	1300 – 1330	Travel to Chesterfield County Airport
	1330 – 1430	Tour airport, hangers, and review small aircraft structures and components
	1430 – 1530	Tour cont.
	1530 – 1600	Return Travel to VCU College of Engineering
	1600	Daily Review/Wrap up and Dismissal
Date	Time	Activity

Tuesday June 20th	0800 – 0830	Drop off/ Breakfast
	0830 – 0900	Lesson: Aircraft Flight Instruments
	0915 – 0930	Break (Play “How Air Traffic Control Works” video)
	0930 – 1200	Flight Simulator Activity
	1200 – 1245	Lunch
	1245 – 1300	Travel to Richmond International Airport
	1315 – 1500	Tour Air Traffic Control Tower and workshop
	1500 – 1530	Return Transportation to VCU College of Engineering
	Date	Time
Wednesday June 21th	0800 – 0830	Drop off/ Breakfast
	0830 – 0900	Travel to the Virginia Department of Aviation
	0900 - 1000	Virginia DOAV Workshop: Intro to Avionics
	1000 - 1100	Virginia DOAV Workshop: Rivet Practice
	11:00 - 1200	Virginia DOAV Workshop: Boeing 747 Flight Simulator
	1200 - 1245:	Lunch

	1245 - 1300	Travel to Richmond International Airport
	1300 - 1530	Richmond International Airport Tour w/ Airport Manager
	1530 – 1600	Return Travel to VCU College of Engineering
Thursday June 22nd	0800 – 0830	Drop off Breakfast
	0830 – 0930	Lesson:
	0930 – 10:00	Travel to Million Air
	1000 – 1130	Workshop: Private Charter Careers and Behind the Scenes
	1200 – 1245	Lunch
	1245 - 1300	Travel to Richmond International Airport
	1300 – 1445	JetBlue Operations Tour -
	1445 - 1500	Tour Jetblue Aircraft
	1500 - 1530	Travel to VCU College of Engineering
	1530 - 1600	Daily Review/Wrap up and Dismissal

Date	Time	Activity
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Friday June 23rd	0800 – 0830	Drop off / Breakfast
	0830 – 0930	Workshop: Unmanned Aerial Vehicles
	0930 – 1030	Demonstration with Drones
	10:30 - 1100	Travel to Hanover Airport
	11:00 – 1400	Discovery Flights HOVA and Airport Tours
	1415 - 1445	Travel to VCU College of Engineering
	1500 - 1600	Graduation Ceremony
	1600	Wrap up and Dismissal

Important Notes

Student Drop-off and Pickup. Students will need to be dropped-off and picked-up daily at the Virginia Commonwealth University College of Engineering. Please see the address below.

VCU College of Engineering
OBAP Aerospace Career Education (ACE) Academy
401 W. Main Street,
Richmond, VA 23284

Nearby Hotels

Courtyard by Marriott
1320 E Cary St, Richmond, VA 23219-4118

Graduate Richmond
301 West Franklin Street, Richmond, VA 23220-4903

Hilton Richmond Downtown
501 E Broad St, Richmond, VA 23219-1809

Graduation Ceremony

A graduation ceremony will be held on Friday, June 23rd at the VCU College of Engineers at 401 W. Main Street, Richmond, VA at 3:00p. Parents & Guardians, you are welcome to attend the ceremony.