



Aviation Academy Information

Poquoson City Public Schools, in partnership with Newport News Public Schools, is offering students the opportunity to take courses in the Aviation Academy program.

For more information go to our PCPS website: <https://www.poquoson.k12.va.us/Page/13222>

WHAT IS THE AVIATION ACADEMY?

The Aviation Academy (AA) is a magnet program offered to students in Newport News Public Schools (NNPS). Through a special partnership with NNPS, Poquoson High School students will be able to participate in classes that are taught through the AA program. PHS students will remain PHS students and will travel to and from the AA for the AA classes and take the remainder of their classes at PHS.

The AA is a specialized program designed to prepare highly-motivated and successful high school students for a rewarding and well-paying career in and around the field of Aviation and STEM. The standards are high at the AA, and every effort is made to provide a caring, disciplined environment where students are given the opportunity to excel and reach their goals. Courses provide challenging subject material to enhance students' reading, writing, science and math skills through student-centered activities.

DISTINCTIVE FEATURES OF THE AVIATION ACADEMY

- "Airport Campus" - students attend classes at the Academy which is located at Denbigh High School effective 2020-2021.
- Small community of learning with a collegiate atmosphere.
- A Federal Aviation Agency (FAA) Ground School with three simulators and a wind tunnel.
- STEM concentration with a focus on aviation.
- Career and Technical Education seal offered.
- Aviation classes are offered in these areas:
 - Aviation Maintenance Technology
 - Aviation Operations Management
 - Aerospace Technology
 - Aerospace Engineering
 - Engineering Design & Development
 - Digital Electronics
 - Pilot Training
 - Air Traffic Control
 - Criminal Justice
 - Public Safety in Aviation
- Industry Certifications Offered:
 - WRSA (Workplace Readiness Skills Assessment)
 - Project Lead the Way—End of Course Assessment
 - Professional License: FAA Private Pilot Written Test
 - Criminal Justice Assessment
 - Emergency and Fire Management Services Assessment
 - Protective Services Assessment

Possible Careers

- Aerospace, Mechanical or Electrical Engineer
- Aircraft Mechanic or Electrician
- Pilot, Copilot or Flight Engineer
- Air Traffic Controller
- General Operations Manager
- NTSB (National Transportation Safety Board) Investigator
- FBI Tactical Aviation Pilot (GS 15)
- Air Marshal
- TSA (Transportation Security Administration) Agent

Aviation Academy website: <http://aviation.nn.k12.va.us/index.html>

STUDENT CRITERIA FOR PARTICIPATION IN THE AA

- The AA is academy is looking for students who:
 - Are curious, not afraid to ask questions, and want to explore exciting career fields.
 - Enjoy hands-on learning.
 - Attend school regularly.
 - Have no or limited number of minor disciplinary infractions.
 - Have an A, B or C average in English and math.
 - Have completed Algebra I with a passing grade in 8th or 9th grade.

“The AA teaches students of all backgrounds and abilities who have a common interest in making themselves better and share a desire to work to their fullest potential.”

STUDENT PARTICIPATION AND SELECTION

- There are currently a limited number of slots available for PCPS student participation in the AA program.
- Students who will be in grades 9 – 12 are eligible to participate.
- Interested students will submit a completed application and a signed Intent to Participate form and register for an AA course during the PCPS registration window.
- Students will be randomly chosen for the available slots using a lottery system.
 - All students who select an AA course as their first elective choice and confirm by signing the Intent to Participate form will be entered into the lottery.
 - Alternate names will also be selected and assigned as alternate #1, alternate #2, alternate #3, etc. If one of the students selected from the lottery opts to no longer attend the class or has a schedule conflict, an alternate will be offered the AA slot.
 - Students will not be allowed to drop the AA class until the end of the first semester and will be placed into a second semester elective option based on class space availability. Students are highly encouraged to remain in the class all year because PHS cannot place another student in the allocated slot after the first day of school.

STUDENT SCHEDULE DETAILS

- AA classes will be taught at the Aviation Academy, which is at Denbigh High School effective 2020-2021.
 - Students will remain PHS students and only travel to the AA for the classes they take within that program.
 - All other classes will be taken at PHS.
- Students will be provided transportation by PCPS to and from the AA.
- Students will take one online course at PHS to account for the travel time and difference in schedules between PCPS and NNPS.
 - PCPS is on a 7-period schedule, where classes meet every day for 50 minutes.
 - NNPS is on an alternating block schedule where classes meet every other day for 90-100 minutes. One day is called an A-Day and the next day is called a B-Day.
 - Some classes may only be on A-days and some may be on B-days. Some programs may have students attending the AA on both A- and B-Days.
- Students from PHS take Aviation Courses either in the morning or in the afternoon (this is dependent on student’s schedules and the Aviation Academy’s master schedule).
- If AA classes are in the morning:
 - Students will be arrive at PHS in the morning as they normally would and will be transported from PHS to the AA and back to PHS to resume classes at PHS. Lunch will be at PHS.
- If AA classes are in the afternoon:
 - Students will depart from PHS and may have to eat their lunch on the bus.
 - Students will return to Poquoson Middle School after the dismissal from the AA.
 - Students can then take the middle school bus home or back to PHS if they participate in after-school activities or athletics.
 - Buses typically leave the middle school at 2:45pm each day.

SAMPLE STUDENT DAILY SCHEDULE – Attending the AA on B-Days

AVIATION ACADEMY SCHEDULE			
A – Day		B – Day	
7:20am – 8:10am	Period 1 at PHS	7:20am – 8:00am	Period 1 at PHS
8:14am – 9:04am	Students in computer lab for online course	8:05am	Students leave PHS to travel to the Aviation Academy
9:08am – 9:58am	Students in computer lab for online course	8:30am – 9:45am	Students in class at Aviation Academy
10:02am – 2:00pm	Periods 4, 5, 6 & 7 at PHS	9:45am	Bus departs Aviation Academy to Return to PHS
		10:02am – 10:52am	4 th period at PHS (Students return to this class from Aviation Academy)
		10:56am – 2:00pm	Periods 5, 6 & 7 at PHS

SAMPLE COURSE SEQUENCE BY GRADE LEVEL

SAMPLE COURSE SEQUENCE			
9th grade	10th grade	11th grade	12th grade
Math	Math	Math	Math
Science	Science	Science	Science
English	English	English	English
Social Studies	Social Studies	Social Studies	Social Studies
PE/Health 9	PE/Driver's Ed 10	Elective*	Elective*
Elective*	Elective*	AA Course	AA Course
AA Course	AA Course	Elective* or AA Course	Elective* or AA Course

**Foreign Language courses are considered elective options in this chart*

For more information on descriptions and pathways, visit

<http://aviation.nn.k12.va.us/doc/aviationcourseguide.pdf>

More information on the next page

AVIATION ACADEMY PATHWAYS AND COURSE OPTIONS BY GRADE

AVIATION ACADEMY PATHWAYS AND COURSES					
Program Area	9	10	11	12	Possible Career
Aviation Technology	Aerospace Technology I	Aerospace Technology II	Aviation Maintenance Technology I*	Aviation Maintenance Technology II* (Honors)	<ul style="list-style-type: none"> • Avionics Technician • Aircraft Mechanic • Airplane Inspector
Aerospace Engineering	Intro to Engineering Design- Aerospace	Digital Electronics (Honors)	Aerospace Engineering	Engineering Design & Development – Capstone (Honors)	<ul style="list-style-type: none"> • Aerospace Engineer • Electrical Engineer • Mechanical Engineer
Flight Operations	Aircraft Pilot Training I	Aircraft Pilot Training II* (Honors)	Aviation Operations Management*	Air Traffic Control* (Honors)	<ul style="list-style-type: none"> • Pilot, Copilot • Aviation Program Manager • Air Traffic Controller
Aviation Security & Safety	Criminal Justice in Aviation I	Criminal Justice in Aviation II* (Honors)	Public Safety in Aviation I	Public Safety in Aviation II* (Honors)	<ul style="list-style-type: none"> • EMT • Firefighter • Lawyer • Detective/Police Officer • Compliance Officer

**indicates a double block class (students would travel to the AA program on both A and B days)*

For more information on strands and pathways, visit
<http://aviation.nn.k12.va.us/doc/aviationcourseguide.pdf>