

Developing the New Aviation Workforce

WORKFORCE DEVELOPMENT...

- Successful programs are not a one-size fits all solution
- Training and education are integral for the present and for future growth of our regional
- Can take many forms:
 - Certifications
 - Professional Development Courses
 - Postsecondary Education
 - Upskilling and Skill Development
 - Mentorship Programs



Goal at eAviation: Pathway to Careers in Advanced Air Mobility (AAM)

CERTIFICATIONS

FAA Part 107 Remote Pilot Certification Test Preparation


Dual Enrollment:


- High School Opportunities in York County School Division
- New Horizons Regional Education Center





Confidently pass your 107 exam!


Remote Pilot Certification Preparation
FAA PART 107 CLASS


 **Tuesdays, 4:30- 7:00 p.m.**
November 5th - December 10th

 Hampton Roads Executive Airport
5172 W. Military Highway
Chesapeake, VA.
In-person or on Zoom

 Experienced Instructors

 99.5% Pass Rate

 \$350



NJROTC Units:

- Princess Anne High School



In-Person and/or Course Offered on Zoom



PROFESSIONAL DEVELOPMENT



**Custom courses: On-site, Customer Site and Virtual
NASA Langley Research Center**

- 20-hour course on the National Airspace and Airport Operations

Virginia Workforce Innovation & Entrepreneurship Center (Hampton University)

Their Mission: To expand the capability of Virginia's aspiring entrepreneurs

- Taught 3 Cohorts of students FAA Part 107 Test Preparation



Virginia Workforce Innovation & Entrepreneurship Center

Led teacher professional workshops

POST SECONDARY EDUCATION

Partnership to build a strong and sustainable labor force that ensures access to skilled workers in a competitive labor market

Students will earn 18-credits from Virginia Peninsula Community College in Unmanned Systems.

- FAA Part 107 Remote Pilot Certification
- Manual Flight Training and Mission Planning
- Drone Components and Repair
- Autonomous Flight and Mission Planning
- Drone Photography and Videography
- Mapping and Surveying



NEW HORIZONS REGIONAL EDUCATION CENTER...



Their Mission: To train and education a competitive, future-ready workforce that is college and community-ready

Career and Technical Programs at New Horizons provides opportunities to develop talent pathways with uncrewed systems

- Fire Science
- Renewable Energy
- Computer Programming/Cyber
- Construction
- Criminal Justice
- HVAC



UPCOMING SPRING 2025 AT ODU



ENGN 485: Introduction to Uncrewed Aerial Systems

This is the first in a four-course series on designing and building multirotor and fixed-wing UAS.

Tuesday/Thursday: 4:30 – 5:45 pm

INTERESTED IN DRONES AND UNCREWED SYSTEMS?

ENGN 485: Introduction to Uncrewed Aerial Systems



MENTORING OPPORTUNITIES

Strategic Partnership Agreement with Greenbrier Christian Academy's Aviation Department to provide mentoring



Camps at several locations with several partners

- STEM Camp at VMI for 525 JROTC cadets
- 4 camps at Hampton Roads Executive Airport
- Hampton University (sponsored by Amazon)
- Tidewater Community College
- Tuskegee Airmen



IN OUR FIRST 9-MONTHS...



Key Partnerships:

- Collaborations with Non-Profits (VSGC, AUVSI, Forgotten Heroes)
- Ongoing Initiatives and New Projects Aligned with Educational Institutions

Key Achievements

<u>Category</u>	<u>Achievements</u>
Dual Enrollment Courses	Public High Schools, New Horizons (18-credit program)
Workforce Development Courses	Hampton University, NASA Langley
STEM Camps	Leading STEM Camps (e.g., VMI for 525 NROTC Cadets)
UAS Programs	Establishing Full UAS Programs for High School Students
Higher Education Collaborations	MOU with ODU to Teach ENGN 485 Starting Spring 2025
Part 107 Prep Course	JNROTC Units, In-Person on Zoom
MOUs	Aviation Departments in Private High Schools
Seasonal Camps with Drones	Spring Break and Summer Camps (KPVG, VSGC, TCC, HU)