DENBIGH HIGH SCHOOL

Aviation ACADEMY

Program Strands for 2023-2024

All aviation students will follow the advanced diploma track in addition to the required Aviation courses.

9th Grade Aviation Courses	10th Grade Aviation Courses	11th Grade Aviation Courses	12th Grade Aviation Courses
AVIATION TECHNOLOGY Students use a hands-on approach to apply the terminology, concepts, and procedures that blend in the dynamics of an aircraft. By completing this sequence, students are prepared to take the general component of the FAA Aviation Maintenance Technician certification after graduation.			
• Aerospace Technology I	• Aerospace Technology II	• Aviation Maintenance Technology I*	• Aviation Maintenance Technology II (Honors)*
FLIGHT OPERATIONS Students learn vital and pertinent knowledge, ranging from the classroom portion of pilot ground school to learning to fly aircrafts and airport operations. Courses also involve an understanding of FAA guidelines that prepares them for their respective FAA certification exam..			
• Aerospace Technology I	• Aircraft Pilot Training I	• Aircraft Pilot Traning II (Honors)*	• Unmanned Aircraft Systems (Honors)
AEROSPACE ENGINEERING Students explore the physics of fight and sketch designs using industry-standard software such as computer-aided design (CAD). Students can bring these concepts to life in a 3D Printing lab located in the Aviation Academy. Students also learn basic orbital mechanics and explore robot systems through projects such as creating remotely operated vehicles.			
• Introduction to Engineering Design - Aerospace	• Digital Electronics in Aviation (Honors)	• Aerospace Engineering	• Engineering Design and Development Capstone (Honors)

Students have the opportunity to earn industry certifications in each program strand.

* Double blocked

Questions? Contact Dr. Aaron Smith at aaron.smith@nn.k12.va.us