Aerospace and Information Technology Academy/Greater Peninsula Governor’s Academy
Located at Hampton High School, 1491 West Queen Street Hampton, VA 23669, Phone 825-4430

The Aerospace and Information Technology Academy is part of the Greater Peninsula Governor's STEM Academy is offered in partnership NASA Langley Research Center, Langley Air Force Base, and a variety of aerospace and research companies, Hampton University, National Institute of Aerospace, Thomas Nelson Community College and Virginia’s Colleges and Universities. Academy programs provide the core high school level academic and technical courses needed for successful transition to postsecondary education and careers in business information management, aerospace, engineering design and solutions, information technology and services, and interactive media. Upon high school graduation, students will have high-tech engineering and literacy and other critical knowledge, skills, and credentials that will prepare them for high-demand, high-wage, and high-skills aerospace and engineering careers in Virginia.

**Aerospace Pathway - Project Lead The Way:** Students explore the evolution of flight, navigation control, and flight fundamentals, investigate aerospace materials, propulsion, space travel, and orbital mechanics.

- Courses include: Introduction to Engineering Design (IED) Principles of Engineering (POE) Digital Electronics (DE) Aerospace Engineering (AE) Senior Capstone Course: Engineering Design and Development (EDD)

- Examples of Career Pathways: Airline pilots, copilots, and flight engineers, transportation and distribution managers, cargo and freight agents, aircraft mechanics and service technicians, dispatchers, logisticians, supervisors of transportation operators, mobile heavy equipment mechanics, air traffic controllers, and military service.

**Information Technology Pathway:** Students develop computer programs, applications, and create web experiences.

- Courses include: Information Technology Fundamentals Computer Information Systems (I & II) Web Page Design (I & II) Video Game Programming Computer System Technology (I & II @ -NHREC) Senior Mentorship

- Examples of Career Pathways: Software application developers, systems software developers, computer systems analysts, network and computer systems administrators, computer support specialist, computer programmers, database administrators, technical writers, computer and information research scientists, computer hardware engineers, and multimedia artists and animators

**Business Information Management Pathway:** Students learn the language of business and how to run a successful business or enterprise.

- Courses include: Accounting (I & II) Information Technology Fundamentals Computer Information Systems Web Page Design (I & II) Video Game Programming Virtual Enterprise

- Examples of Career Pathways: Management analysts, office clerks, general and operations managers, customer service representatives, bookkeeping clerks, supervisors of office workers, administrative assistants, executive assistants, shipping, receiving, and traffic clerks, training and development specialists, operations research analysts, administrative services managers, human resources assistants, payroll and timekeeping clerks, file clerks, human resource managers, compensation and job analysis specialists, procurement clerks, and training and development managers