



# Hampton City Schools

## Academies of Hampton - Information

### *What are The Academies of Hampton?*

Through the Academies of Hampton, Hampton City Schools is committed to providing students more of the advanced skills they need to be productive, engaged, and successful citizens in college, career, and life. The Academies enable students to learn through the lens of a career or academic theme in a relevant, hands-on learning environment with real-world application and experiences. Each academy provides a highly personalized, small learning community, where students learn English, science, math, and social studies within the theme of their academy. Through their academy experiences, students are exposed to a multitude of careers and opportunities, industry skills, and potential employers by way of classroom speakers, site visits, job shadowing, and internships.

### *What makes an academy experience different than a traditional, comprehensive high school experience?*

- Students learn in a small, personalized environment that is centered on and responsive to their needs and the needs of the community.
- Students experience applied learning opportunities within themed college and career academies.
- Students work with business and industry partners to solve real-world problems for authentic learning.
- Essential knowledge and skills are taught to students in order to graduate prepared for success in postsecondary education, training, and/or employment.
- Students engage in rigorous interdisciplinary curriculum that integrates academic and career education curriculum.
- Students work within a culture of collaboration, communication, creativity, and critical thinking that promotes the development of leadership and teamwork skills.
- Students earn certification credentials and have dual enrollment opportunities.
- Students graduate with the essential 21<sup>st</sup> century knowledge and skills that prepare them for further education, training, careers, and life.

### *What will the Academies of Hampton provide students?*

- Encouraging, nurturing, challenging, and rigorous learning opportunities within small learning communities.
- Positive relationships with all stakeholders, parents and guardians, students, teachers, school staff, and industry and business partners.
- Training and resources to resolve conflicts peacefully and respectfully.
- Supports for students who are experiencing crisis, trauma, or serious challenges in their homes, school, and communities.
- Engaging academic and extracurricular activities for students that meet their academic needs and college and career goals.
- Effective communication between schools, parents, and communities.
- Clean and well-maintained environments that clearly demonstrate school pride and love of learning.
- A learning environment where students and staff feel physically and emotionally safe.

**The Academies of Hampton prepare for students for college and careers.**



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## Academies of Hampton – Application Information

### *How to Apply to the Academies of Hampton*

Hampton City Schools prepares students for college, careers, and life in the 21st century by engaging them in dynamic learning environments. The Academies of Hampton provides students an opportunity to choose a thematic course of study such as health care, engineering, information technology or aerospace engineering, and learn in a relevant, hands-on environment with real-world application.



Students have an opportunity to enroll in one of the four unique academies. For more detailed information on course offerings, dual credit and enrollment courses, and industry certification alignment, please view the HCS Course Description Guide or talk to your school counselor.



**Governor's Health  
Science Academy**  
Located at Bethel High School



**Aerospace &  
Information Technology  
Academy**  
Located at Hampton High School



**Architecture & Applied  
Arts Governor's STEM  
Academy**  
Located at Kecoughtan High School



**Information Design &  
Engineering Academy**  
Located at Phoebus High School

### *Application Process*

Attendance at a Rising 9<sup>th</sup> Grade Parent Night meeting is highly recommended. Information about high school and academy choices will be presented at the meetings as well as an opportunity to visit a high school/academy of your choice. Parents and students are encouraged to ask questions prior to selecting a high school or academy. Eighth grade students will have an opportunity to learn about all academies before making their high school choice selection.

**Recommendation forms are due to teachers no later than February 17**

**Completed application packages are due to the school counselor no later than February 24**

**Application Package:** The application must be signed by student and parent, and must include:

- 📄 Application packet cover sheet
- 📄 Completed Academies of Hampton application form
- 📄 Written personal statement answering the following questions:  
*Why do you wish to attend this particular academy? AND How could this program help your future?*
- 📄 School counselor recommendation form
- 📄 Two teacher recommendations forms (Recommendations must be from current teachers & one must be from a math or science teacher)



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### *Academies of Hampton Application Timeline*

### IMPORTANT DATES

<b>January</b>	Applications available on HCS website and in counseling offices
<b>February 17</b>	Deadline for students to give the Teacher Recommendation forms to the designated teachers (one must be a math or science teacher)
<b>February 24</b>	Deadline for the student to submit the completed student application, personal statement, and school counselor recommendation forms to the school counselor
<b>February 24</b>	Deadline for the two teachers providing the student recommendation to submit the completed Teacher Recommendation to the school counselor
<b>February 28</b>	Deadline for school counselor to submit the completed application package the CTE office
<b>March 3</b>	Deadline for the CTE office to provide completed application packets to each Academy
<b>March 10</b>	Deadline for decision letters to be sent and emailed to students/parents
<b>March 20-23</b>	Academy Orientation Sessions:  Bethel High School – March 20  Hampton High School – March 21  Kecoughtan High School – March 22  Phoebus High School – March 23
<b>March 30</b>	Deadline for all students to submit their intent to attend letter to the Office of Career and Technical Education at 1 Franklin Street Hampton, VA 23669



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### Architecture & Applied Arts Governor's STEM Academy

Kecoughtan High School, 522 Woodland Road Hampton, VA 23669, Phone 850-5000

**Architecture & Applied Arts Governor's STEM Academy** - Academy programs provide academic and technical courses needed for successful transition to postsecondary education and careers in architecture, art, engineering, engineering technology, graphic arts, and marketing. Upon high school graduation, students will have STEM-related literacy and other critical knowledge, skills, and credentials that will prepare them for high-demand careers in architecture and applied arts.

**Academy Partners:** ECPI University, Hampton University, JCPenney, Peninsula Council for Workforce Development, Peninsula Housing and Building Association, NASA Langley Research Center, New Horizons Regional Education Center, Newport News Shipbuilding, Q-Design, Signature Canvas, Thomas Nelson Community College, and Walsh Electric

**Design and Construction Pathway:** Students learn the principles of architectural drafting, design, and construction.

**Courses include:** *Construction Technology (8431), Architectural Drawing and Design (8437), Production Systems (8447), Materials and Processes (8433), Engineering Drawing (8436), Art History (9170),* as well as other electives

**Examples of Career Pathways:** *architects, architectural designers, building code inspectors/officials, building designers, civil engineers, cost estimators, drafters, environmental designers, environmental engineer/technicians, fire prevention/protection engineers, interior designers, landscape architects, materials engineers, urban planner/designers, safety directors, specification writers, structural engineers, surveying/mapping technicians, and surveyors*

**Architectural Engineering Pathway:** Students learn the concepts and principles of architectural engineering through a series of science, technology, engineering, and mathematics (STEM) based courses.

**Courses include:** *Technical Drawing/Design (8435), Engineering Drawing/Design (8436), Engineering Explorations (8450), Construction Technology (8431), Advanced Engineering Drawing/Design (8438), and Production Systems (8447),* as well as other electives

**Examples of Career Pathways:** *application engineers, architectural engineers, civil engineers, construction engineers, industrial engineers, CAD technicians, drafters, manufacturing engineer technicians, mechanical engineer technicians, mechanical engineers, survey technicians, systems engineer technicians, systems engineers, transportation engineer technicians and transportation engineers*

**Graphic Design Pathway:** Students learn how technology and traditional art forms can work together to create visually appealing and commercially effective pieces. They use a variety of graphic techniques and tools to develop promotional, marketing and packaging.

**Courses include:** *Art Foundations: Cultural Art Forms (9160), Art Foundations: 2-D Design (9120), Art Foundations: 3-D Design (9120), Computer Graphic Design (9181), Introduction to Marketing (8110), Sports and Entertainment Marketing (8175), 3D Computer Animation I (3180), Advanced Marketing (8130),* as well as other electives

**Examples of Career Pathways:** *advertisers, animators, cartoonists, designers, educators, fashion illustrators, interior designers, performance artists, photographers, and web designers*

**Fashion Design Pathway:** Students learn the apparel and accessories industry through designing, constructing, and merchandising their own pieces. Students develop technical proficiencies of pattern-making, tailoring, industrial sewing, marketing, and other related skills.

**Courses Include:** *Introduction To Marketing (8110), Fashion Careers I (8280), Fashion Marketing (8140), Advanced Fashion Marketing (8145), Fashion Careers II (8281),* as well as other electives

**Examples of Career Pathways:** *administrative support representatives, customer services representatives, department managers, merchandise buyers, merchandise managers, operations managers, retail marketing managers, sales associates, stock clerks, store managers, and visual merchandise manager*



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**Governor's Health Science Academy**  
Bethel High School, 1067 Big Bethel Road Hampton, VA 23666 Phone 825-4400

**Governor's Health Sciences Academy** - Academy programs provide academic and technical courses needed for successful transition to postsecondary education and careers in dentistry, medicine, nursing, biomedical technicians, and emergency medical technicians. Upon high school graduation, students will have health science literacy and other critical knowledge, skills, and credentials that will prepare them for high-demand careers in health sciences.

**Academy Partners:** Hampton University, Riverside College of Health Careers, Sentara Healthcare, Thomas Nelson Community College, and ECPI University

**Diagnostic Services Pathway:** Students learn to use tests and evaluations to aid in the detection, diagnosis and treatment of diseases, injuries or other physical conditions.

**Courses include:** *Introduction to Health and Medical Sciences (8302), Medical Terminology (8383), Human Body Systems (8380)*, as well as other electives

**Examples of Career Pathways:** *lab technicians, data entry clerks, quality assurance/quality control technicians, biochemists, microbiologists, research assistants and research scientists*

**Therapeutic Services Pathway:** Students learn to care and treat patients to improve their health by counseling patients and providing them the tools needed to live a healthier and problem-free lifestyle.

**Courses include:** *Introduction to Health and Medical Sciences (8302), Medical Terminology (8383)*, as well as other electives

**Examples of Career Pathways:** *anesthesiologist assistants, athletic trainers, audiologists, certified nursing assistants, chiropractors, dental lab technicians, dentists, dieticians, emergency medical technicians, paramedics, home health aides, medical assistants, nurse practitioners, social workers, pharmacists, pharmacy technicians, physicians, psychologists, and veterinarians*

**Biotechnology Research and Development Pathway:** Students learn about the discovery of new treatments and medical technologies to improve human health and advance the overall health science field.

**Courses include:** *Medical Terminology (8383), Principles of Biomedical Sciences PLTW (8379), Human Body Systems PLTW (8380), Medical Intervention PLTW (8381)*, as well as other electives

**Examples of Career Pathways:** *biomedical/clinical technicians, laboratory technicians, quality assurance/quality control technicians, nuclear medicine technologists, cell biology research assistants, research scientists, and biochemists*

**Support Service Pathway:** Students learn to assist health care professionals with a range of administrative and maintenance duties to ensure that the health care environment is maintained.

**Courses include:** *Introduction to Health and Medical Sciences (8302), Medical Terminology (8383), Computer Information Systems (6612), Computer Information Systems - Advanced (6613), Accounting (6320), Accounting - Advanced (6321)*, as well as other electives

**Examples of Career Pathways:** *central service managers, facilities managers, materials managers, medical records managers, insurance billing assistants, insurance billing managers, ward secretaries, environmental services technicians, environmental services managers and quality assurance/quality control technicians*

**Health Informatics Pathway:** Students learn to manage health care agencies by overseeing patient data, financial information, and technological applications to health care processes and procedures.

**Courses include:** *Introduction to Health and Medical Sciences (8302), Medical Terminology (8383), Computer Information Systems (6612), Programming (6640), Information Technology Fundamentals (6670), Computer Information Systems, Advanced (6613)*, as well as other electives

**Examples of Career Pathways:** *admitting clerks, health educators, health care administrators, medical assistants, medical billers, patient financial services administrators, risk managers, and medical information technologists*



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### Information Design and Engineering Academy (IDEA) STEM Academy

Phoebus High School, 100 Ireland Street Hampton, VA 23663 Phone 727-1000

**Information Design and Engineering Academy (IDEA) STEM Academy** - Academy programs provide academic and technical courses needed for successful transition to postsecondary education and careers in engineering, engineer technologist, or engineering technician, programming and information technology, electronic media, and graphics design. Upon high school graduation, students will have high-tech engineering and manufacturing literacy and other critical knowledge, skills, and credentials that will prepare them for high-demand careers in information design and engineering.

**Academy Partners:** ECPI University, Hampton University, Peninsula Council for Workforce Development, National Institute of Aerospace, New Horizons Regional Education Center, and Newport News Shipbuilding

**Engineering and Manufacturing Pathway:** Students learn the engineering design process and how technology is created. Students develop and design new products using industry-recognized design software, rapid prototyping, mechatronics, and robotics.

**Courses include:** *Introduction to Engineering Design PLTW (8439), Principles of Engineering PLTW (8441), Digital Electronics PLTW (8440), Computer Integrated Manufacturing PLTW (8842), Engineering Design and Development PLTW (8843), Engineering Drawing/Design (8436), Technology Drawing/Design (8435), Robotics I (8557), Robotics and Mechatronics (8558),* as well as other electives

**Examples of Career Pathways:** *aeronautical/aerospace engineers, application engineers, architectural engineers, automotive engineers, CAD technicians, computer/hardware engineers, drafters, electrical/electronic engineering technicians, geothermal engineers, industrial engineer technicians, industrial engineers, manufacturing engineer technicians, manufacturing engineers, marine engineers, metallurgists, product/process engineers, survey technicians, surveyors, systems engineers, and transportation engineers*

**Programming and Cyber Security Pathway:** Students learn to create a story line for a video game, how to create web page, basic animation techniques, and how a computer works.

**Courses include:** *IT Fundamentals (6670), Programming (6640), Design, Multimedia, and Web Technologies (6630), Computer Network Software Operations (6650), Computer Network Software Operations – Advanced (6651), Advanced Programming (6641),* as well as other electives

**Examples of Career Pathways:** *account managers, applications integrators, call center support representatives, data systems designers, database analysts, e-business specialists, help desk specialists, information systems architects, instructional designers, maintenance technicians, computer support specialists, computer systems coordinators, project support engineers, systems analysts, technical communicators, and testing engineers*

**Video Media Production Pathway:** Students learn design basics in photography, Photoshop, and video editing using industry-standard video and audio editing programs. Students learn basic writing, directing, acting, and editing of high definition camera work to create professional videos.

**Courses include:** *Communications Systems (8415), Imaging Technology (8455), Video and Media Technology (8497), 3D Computer Animation Level I (3180), 3D Computer Animation Level II (3181),* as well as other electives

**Examples of Career Pathways:** *audio system technicians, audio-video designers, audio-video engineers, audio-video system service technicians, technical computer support technicians, videographers, special effects animators, visual effects artists, video systems technicians, animators, and film editors*



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### Aerospace and Information Technology Academy

Hampton High School, 1491 West Queen Street Hampton, VA 23669, Phone 825-4430

**The Aerospace and Information Technology Academy** – Academy programs provide the 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 careers in aerospace and engineering.

**Academy Partners:** Hampton University, Langley Air Force Base, NASA Langley Research Center, National Institute of Aerospace, New Horizons Regional Educational Center, Newport News Shipbuilding, Northrop Grumman, Peninsula Council for Workforce Development, Thomas Nelson Community College, and Virginia Space Grant Consortium

**Aerospace Engineering Pathway:** Students explore the evolution of flight, navigational control, and flight fundamentals; investigate aerospace materials, propulsion, space travel, and orbital mechanics.

**Courses include:** *Introduction to Engineering Design PLTW (8439), Principles of Engineering PLTW (8441), Digital Electronics PLTW (8440), Aerospace Engineering (8428), Senior Capstone Course: Engineering Design and Development (8443)*, as well as other electives

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

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

**Courses include:** *Information Technology Fundamentals (6670), Computer Information Systems (6612), Computer Information Systems, Advanced (6613), Design, Multimedia, and Web Technologies (6630), Design, Multimedia, and Web Technologies Advanced (6631), Programming (6640), Computer Network Software Operations (6650), Computer Network Software Operations, Advanced (6651)*, as well as other electives

**Examples of Career Pathways:** *software application developers, systems software developers, computer systems analysts, network and computer systems administrators, computer support specialists, computer programmers, database administrators, technical writers, computer and information research scientists, computer hardware engineers, 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 (6320), Accounting Advanced (6321), Information Technology Fundamentals (6670), Computer Information Systems (6612), Design, Multimedia, and Web Technologies (6630), Design, Multimedia, and Web Technologies Advanced (6631), Programming (6640), Business Virtual Enterprise (6135)*, as well as other electives

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

**Air Force JROTC:** Students are trained in citizenship, community service, responsibility, character, and self-discipline, while learning Air Force and military fundamentals.

**Courses include:** *Air Force JROTC I, II, III, and IV, as well as other electives.*

**Examples of Career Pathways:** *airline pilots, copilots, flight engineers, air traffic controllers, foreign service, governance, national security, public management and administration, correction services, law enforcement services, military enlisted personnel, and military officers*



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### *Academies of Hampton Selection and Admissions Process*

The goal of the Academies of Hampton is to provide students a dynamic experiential learning opportunity over three to four years in cross-curricular academic and work readiness experiences.

Each Academy manages the selection process for its programs. A committee, comprised of Academy faculty, staff and administrators, follows the following process as it reviews each application.

**STEP 1:** Students will only be considered if they have submitted all required application documents to their school counselor no later than **February 24**. The completed application package includes the following documents:

- Academies of Hampton application
- Student's personal essay
- Two (current) teacher recommendations
- School counselor recommendation
- Student profile
- Student Log entries



Submit an Application

**STEP 2:** A committee made up of Academy faculty, staff, school counselors, teachers and administrators reviews each application and student record (attendance and grade-point averages). In their review, the committee considers the student's application, the two teacher and school counselor recommendations, and the student's grades, attendance and discipline records. Student applications must demonstrate that the student has met the minimum academic requirements, received satisfactory letters of recommendation, demonstrated commitment to adherence to the student code of conduct, and expressed a desire to attain competence in one of the career pathway plans of study.

**STEP 3:** Each Academy has a maximum enrollment number; therefore, space availability is considered in the final selection of students for admittance to the program. The committee is responsible for ensuring the incoming class of Academy students represents the diverse population of Hampton City School student census. The Selection Committee decisions are submitted to the Academy principal for review.


**STEP 4:** Application approval by the Academy principal is required. All decisions are final.

**STEP 5:** Selection Committee decisions will be sent to students and parents no later than **March 10**.

**STEP 6:** Students and parents are expected to attend an Academies of Hampton orientation **March 20-23**.

The orientation agenda will include the following topics.

- Overview of the Academy
- Explanation of the Clusters and Pathways
- Review of student expectations
- Parent and student question and answer session
- Meeting with School Counselor and teachers



Decline



Accept

**STEP 7:** Students and parents must sign a letter of intent to enroll in the Academy and return it to the office of Career and Technical Education at 1 Franklin Street Hampton, VA 23669 no later than **March 30**.





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### Academies of Hampton Student Standards and Expectations

All Academies of Hampton students will sign a commitment statement that demonstrates their agreement to meet the following standards and expectations:

1. Students are responsible for enrolling in the core academic courses required of all high school students for graduation and the specific sequence of technical elective courses related to their Academy and career/technical education cluster designed to qualify them for a wide variety of technology-related, entry level positions and to provide the foundation for continuing education at the 2-year and 4-year college levels.
2. Students will be expected to fulfill minimum course requirements related to the Academy pathway in order to maintain active status and to continue to the next grade level in the program. Students in grades 9-12 must be enrolled in and pass the designated Academy CTE theme-related course(s) each year. Failure to meet this Continuation Standard may result in dismissal from the Academy.
3. Students must be willing to focus and fully apply his/her gifts and talents.
4. Students must commit to fulfilling the academic expectations and requirements of his/her chosen Academy program curriculum and have a strong interest in specific career options related to one of the career areas.
5. Students are responsible for transportation to and from the Academy when the Academy is not housed at the student's zoned school.
6. Students participating in internships are responsible for transportation to and from the worksite.
7. Students are responsible for meeting attendance policies for academic and out-of-school time. Excessive tardies or absences may result in being dismissed from the program. Class attendance is mandatory.
8. Students are responsible for submitting their work on time. Each classroom teacher at the beginning of the school year informs students of specific homework requirements and evaluation procedures for the course.
9. Students are responsible for making arrangements with the teacher to make up missed coursework. Any missed classroom activities remain the responsibility of the student.
10. Students are expected to check the Academies of Hampton and their home Academy Website for informational bulletins, special deadlines, or information.



Graduates of the Academy successfully graduate from the program by meeting one or more of the following benchmarks:

- Earn an industry credential;
- Demonstrate competency on an assessment recognized by postsecondary institutions such as College-Level Examination Program (CLEP), or college placement tests; and/or,
- Earn at least 9 transferable college credits as defined by the [Early College Scholars](#) program including dual enrollment and Advanced Placement.

