

# The Health Sciences Academy at Bayside High School



The Bayside High School Health Sciences Academy, welcomes all students who may be considering a career in the medical sciences or who are interested in exploring the many opportunities within the specialized curricula. A health sciences student pursues a focused program in the medical sciences curriculum and has a myriad of opportunities to choose the curriculum that suits his or her needs. Options are afforded for an academy student to pursue goals of post-secondary education at colleges or universities or at the community college level. Students receive a solid foundation in the core subjects. They are further prepared academically in a rigorous medical health sciences course of study. A major learning component of the program is the opportunity for students to attain practical experience in the worksite as well as in academic settings.

## Suggested Courses For The Health Sciences Academy-Plan Of Study

### **Grade 9**

Academy Honors English 9 Academy Geometry or Algebra II/	Academy Health/Physical Education I
Trigonometry	Academy Intro to Health Careers
AP Human Geography	Modern World Language
Academy Biology	Academy Enrichment Block

### **Grade 10**

	Academy Chemistry
Academy Honors English 10 Academy Algebra II/Trigonometry Academy Human Anatomy*	
or Math Analysis	Modern World Language Health/Physical Education II

*AP Modern European History or Academy World History II	Academy Enrichment Block
	AP World Language

### **Grade 11**

*AP English Language	Physiology & Pathophysiology I
or Academy Honors English 11 Math Analysis or	Choose 2:
*AP Calculus AB or BC	Medical Science Elective (see list) Fine or Practical Arts (2 semesters)
*AP U.S. History or Academy U.S. History	Personal Finance/Economics

AP Biology, AP Chemistry, or \*AP Physics

Academy Enrichment Block

**Grade 12**

\*AP English Literature,  
or Dual Enrollment English12  
Medical and Biological Applications  
in Advanced Mathematics

\*AP Biology, \*AP Chemistry,  
or \*AP Physics I  
Physiology & Pathophysiology II\*

(post calculus) or

Medical Science elective

Fine or Practical Art

\*AP Calculus AB or BC,  
or AP Statistics

Academy U.S./VA Government  
or \*AP Government and Politics

*\* Weighted Credit*

Students may choose to pursue a Standard or Advanced Studies Diploma, depending on the curricular plan of study chosen. Unique to the Health Sciences Academy is the opportunity for conditional admission to St. George's University: Caribbean Medical and Veterinary Schools.

### **Core Academy Curriculum**

Core courses are required of all Academy students and include Academy English, mathematics, science, and social studies. In addition, students take medical science courses beyond the typical core courses. They also receive coursework and training through preceptorships, mentorships, research, and special opportunities in the medical sciences field. Through partnerships in the medical and academic communities, students have numerous opportunities to take part in medical research. Students work on long-term research projects with the assistance of mentors at Eastern Virginia Medical School (EVMS).

Community partners, such as NASA, Virginia Zoo in Norfolk, EVMS, American Red Cross, Old Dominion University (ODU), Children's Hospital of the King's Daughters (CHKD) and Sentara Hospital Group are an integral part of the program.

### **Medical and Health Care Elective Courses**

- Medical Microbiology
- Hereditary Medicine
- Comparative Anatomy
- Medicinal Chemistry
- Forensic Medicine I and II
- Scientific Research and Writing
- Medical & Biological Applications in Advanced Mathematics
- Biomedical Technology
- Anatomical Architecture
- Medical Illustration
- AP Psychology
- Anatomy and Sports Injury