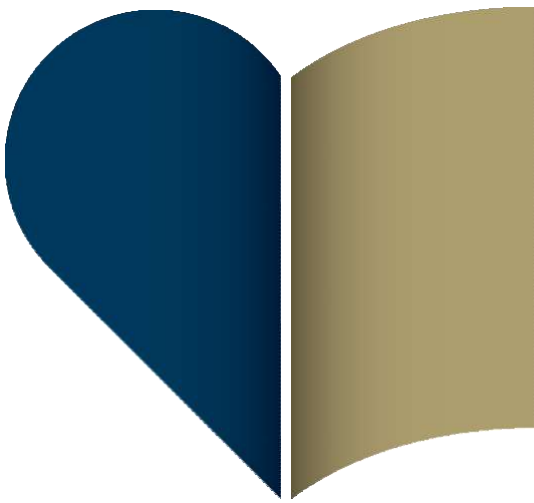THE G W SCHOOL OF MEDICINE AND HEALTH SCIENCES

GOVERNOR'S HEALTH SCIENCES ACADEMY

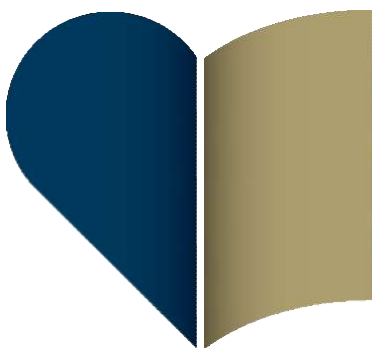## AT T.C. WILLIAMS HIGH SCHOOL

ALEXANDRIA CIT Y PUBLIC SCHOOLS

Reamer L. Bushardt, PharmD, PA-C, DFAAPA

Senior Associate Dean for Health Sciences, Professor of Physician Assistant Studies at SMHS

"Globally, nationally, and regionally, health care jobs are in high demand. Recruiting and retaining top talent across health care careers from entry level jobs to the most highly trained professionals are ongoing challenges for every major employer involved in delivering patient care services. GW and its School of Medicine and Health Sciences share a strong reputation and recruit students from all over the country and the globe. At Health Sciences, we felt we could do more to support regional workforce needs and increase our value within the DMV area. We are excited to partner with ACPS in a unique way to do that within Northern Virginia. The teachers and administrators at T.C. Williams have a strong investment in seeing their students graduate high school and successfully enter the workforce in good paying jobs or pursue a college degree. I believe the Academy of Health Sciences is a model to advance all of these goals."

GOVERNOR'S HEALTH SCIENCES ACADEMY
AT T.C. WILLIAMS HIGH SCHOOL

Know a student who's interested in a career in health care? A high-skill, in-demand health care job?

Then you need to know about a new partnership between the George Washington University (GW) School of Medicine and Health Sciences (SMHS) and Alexandria City Public Schools (ACPS).

The Governor's Health Sciences Academy at T.C. Williams High School allows students to start a career pathway in health care and earn college credits while in high school. The Academy offers seven career and technical education pathways: biomedical informatics, medical laboratory sciences, sports medicine, pharmacy, emergency medical services, nursing, and surgical technology.

Academy students can earn up to 18 college credits from SMHS, starting in the ninth grade, while meeting high school graduation requirements. The partnership creates innovative training for professional health care careers in high demand. Jobs in health care are projected to grow 18 percent through 2026, adding about 2.3 million new positions nationwide – more than any other occupation, according to the U.S. Bureau of Labor Statistics.

The inaugural Academy class started in September 2018 with students graduating in the Class of 2022. Students accepted into the Academy are required to attend a summer bridge program during the summer between eighth and ninth grade to prepare for the Academy. As high school freshmen, Academy students will complete the "Introduction to Health and Medical Sciences" course, which will help them decide which of the seven pathways they want to pursue.

Academy classes at T.C. Williams will be taught by high school teachers who meet GW faculty standards and undergo professional development training. SMHS faculty will work hand-in-hand with teachers to design the curricula and student assessments to ensure they meet Virginia Department of Education requirements as well as GW's standards of quality and rigor.

7 Career Pathways in the Academy of Health Sciences

Pathway Options	Year I Grade 9	Year II Grade 10	Year III Grade 11	Year IV Grade 12	Possible Degrees	VDOE Career Cluster Pathway
Surgical	Introduction to Health and Medical Sciences	Medical Terminology with Anatomy and Physiology	Sterile Processing Technician	Surgical Technologist I (3 credits)	Surgical Technology, A.A.S Health Sciences, B.S.	Therapeutic
Nursing			Nurse Aide I (2 credits)	Nurse Aide II (2 credits)	Nursing, A.A.S Health Sciences, B.S.	Therapeutic
Biomedical Informatics			Health Informatics	Biotechnology Foundations in Health and Medical Sciences	Health Information Management, A.A.S Biomedical Informatics, B.S.	Health Informatics
Sports Medicine			Sports Medicine I (2 credits)	Sports Medicine II (2 credits)	Physical Therapy A.A.S. Health Sciences, B.S.	Diagnostics
Emergency Medical Services			Emergency Medical Responder	Emergency Medical Technician I (2 credits)	Emergency Medical Services, A.A.S Emergency Medical Services, B.S.	Therapeutic
Pharmacy			Pharmacy Technician I	Pharmacy Technician II (2 credits)	Certificate of Pharmacy Technology Health Sciences, B.S.	Support Services
Medical Laboratory Science			Medical Laboratory Technology I	Medical Laboratory Technology II	Medical Lab Tech, A.A.S Medical Laboratory Sciences, B.S.	Biomedical Research & Development

T.C. Williams → **GOVERNOR'S HEALTH SCIENCES ACADEMY** AT T.C. WILLIAMS HIGH SCHOOL → **7 Career Pathways**

18 → College credits that can be earned beginning as early as 9th grade

At graduation from T.C. Williams students in the Academy leave with options

Option 1		Students leave high school with training and certification to enter the workforce
Option 2	**NOVA** Northern Virginia Community College	Students can pursue an associate's degree
Option 3	**GW**	Students can transfer into GW SMHS or take their GW transcript to another school

Sample Schedule for Students Pursuing Advanced Diploma

Academy students can graduate with an Advanced or Standard Diploma. Here's a sample schedule for achieving an Advanced Diploma. Students will work with their counselor and family to identify appropriate core courses based on student interest, abilities, academic and career goals.

Subject	Course	Credits	
Year 1 Grade 9			
Subject	Course	High School	College
English	English 9 or English 9 Honors	1	0
Math	Algebra I, Geometry, Algebra II	1	0
Science	Biology, Biology Honors	1	0
Social Studies	World History I, World History Honors, AP Human Geography*	1	3-6
World Languages	Level I-III any language offered	1	0
Physical Education (PE)	9th Grade Physical Education (students may take in summer or online)	1	0
HMS Course*	Introduction to Health and Medical Sciences	1	4
Year Total Credits		**7**	**4-10**
Year 2 Grade 10			
Subject	Course	High School	College
English	English 10 or English 10 Honors	1	0
Math	Geometry, Algebra II, Pre-Calculus	1	0
Science	Chemistry, Chemistry Honors	1	0
Social Studies	World History II, AP World History*	1	3-6
World Languages	Level II-IV any language offered	1	0
Physical Education (PE)	10th Grade Physical Education (students may take in summer or online)	1	0
HMS Course*	Medical Terminology with Anatomy and Physiology	1	6
Year Total Credits		**7**	**3-12**

Important Dates
- Application available February 2019
- Application due April 2019
- Student notification in June 2019
- Summer Bridge program July 2019

Application Information
- Online application
- Reviewed by Selection Committee
- Minimum 2.50 GPA
- Middle school transcript

Complete Application required, including:
- 3 short essays
- 3 teacher/adult recommendations: Math teacher, Science teacher, Student choice

*Courses with an * indicate the opportunity to earn college credit*

Year 3 Grade 11				
Subject	**Course**	**Credits**		
		High School	**College**	
English	English 11, English 11 Honors, DE College Composition 11*, AP Language*	1	3-6	
Math	Algebra II, Pre-Calculus, AP Calculus*, Probability and Statistics, AP Probability and Statistics*	1	3-10	
Science	Third Science, possible AP Science*	1	3-8	
Social Studies	U.S. History, U.S. History Honors, DE U.S. History*, AP U.S. History*	1	3-6	
World Languages	Level III-IV, or AP* of any language offered	1	3-6	
Economics and Personal Finance	Economics and Personal Finance, or AP Micro or Macro Economics* and Online Personal Finance (students may take in summer or online)	1	3-6	
HMS Courses*	Emergency Medical Responder**, Heath Informatics, Medical Laboratory Technology I, Nurse Aide I, Pharmacy Technician I, Sports Medicine I, Sterile Processing Technician	1-2	Up to 4	
Year Total Credits		**7-8**	**Up to 46**	

Year 4 Grade 12				
Subject	**Course**	**High School**	**College**	
English	English 12, English 12 Honors, DE College Composition 12*, DE World Literature*, AP Language*	1	3-6	
Math	Advanced Math Course, possible AP* or Dual Enrollment*	1	3-10	
Science	Advanced Science Course, possible AP*	1	3-8	
Social Studies	Government, Government Honors, AP Government*	1	3-6	
World Languages	Level IV, AP* of language offered if still need credits	1	3-6	
General Elective	General Elective if needed in schedule or AP Science Lab	0-1	0	
HMS Course*	Emergency Medical Technician I, Biotechnology Foundations in Health and Medical Sciences, Medical Laboratory Technology II, Nurse Aide II**, Pharmacy Technician II, Sports Medicine II, Surgical Technologist I	1-2	Up to 4	
Year Total Credits		**7-8**	**Up to 40**	
Four-Year Grand Total		**28-31**	**Up to 98**	

-Courses in italics will be new courses offered for the first time during that designated year.
*Indicates courses offering college credit. Courses with an ** are new; credit pending approval

Health Sciences Careers

Careers	Entry Level Education
Surgical Technologists also called operating room technicians, assist in surgical operations. They prepare operating rooms, arrange equipment, and help doctors during surgeries.	Postsecondary non-degree/ Associate's Degree
Physician Assistants (PAs) practice medicine on teams with physicians, surgeons, and other healthcare workers. They examine, diagnose, and treat patients.	Master's Degree
Medical Assistants complete administrative and clinical tasks in the offices of physicians, hospitals, and other healthcare facilities. Their duties vary with the location, specialty, and size of the practice.	Postsecondary non-degree
Licensed Practical Nurses (LPNs) provide basic nursing care. They work under the direction of registered nurses and doctors.	Postsecondary non-degree
Registered Nurses (RNs) provide and coordinate patient care, educate patients and the public about various health conditions, and provide advice and emotional support to patients and their family members.	Bachelor's Degree
Health Information Technicians organize and manage health information data. They ensure that the information maintains its quality, accuracy, accessibility, and security in both paper files and electronic systems.	Postsecondary Certificate/ Associate's Degree
Biomedical Informatics practitioners are usually called informaticians and view their focus more on information than technology.	Bachelor's Degree
Bioinformatics professionals apply informatics in cellular and molecular biology, often with a focus on genomics.	Bachelor's Degree
Health Informatics manages the health informatics team. Oversees the analysis, management and performance of health information data to aid patient care.	Bachelor's Degree
Clinical Informatics professionals are responsible for the implementation and utilization of information systems required for patient care initiatives.	Bachelor's Degree

Careers	Entry Level Education
Pharmacy Technicians help pharmacists dispense prescription medication to customers or health professionals.	High School Diploma/ Associate's Degree
Pharmacists dispense prescription medications to patients and offer expertise in the safe use of prescriptions. They also may conduct health and wellness screenings, provide immunizations, and oversee the medications given to patients.	Doctoral Degree
Emergency Medical Technicians (EMTs) care for the sick or injured in emergency medical settings and respond to emergency calls to provide medical services.	Postsecondary non-degree
Medical Laboratory Technologists (MLTs) collect samples and perform tests to analyze body fluids, tissue, and other substances.	Associate's Degree
Medical Laboratory Scientists (MLS) performs a variety of laboratory procedures using established synthetic methods and techniques under general guidance. Conducts experiments, some moderately complex.	Bachelor's Degree
Athletic Trainers specialize in preventing, diagnosing, and treating muscle and bone injuries and illnesses.	Bachelor's Degree
Physical Therapy Assistants (PTAs) work under the direction and supervision of physical therapists, helping patients who are recovering from injuries and illnesses regain movement and manage pain.	Associate's Degree
Physical Therapists (PTs) help injured or ill people improve their movement and manage their pain.	Doctoral Degree
Occupational Therapy Assistants (OTAs) work under the direction and supervision of physical therapists, helping patients develop, recover, improve, as well as maintain the skills needed for daily living and working.	Associate's Degree
Occupational Therapists (OTs) treat injured, ill, or disabled patients through the therapeutic use of everyday activities.	Master's Degree

Alexandria City Public Schools

Alexandria City Public Schools serves more than 15,000 students who hail from more than 118 countries and speak 120 languages. The school system has 16 schools, including 12 elementary schools, two middle schools, one preK-8 school, and the international nationally recognized T.C. Williams High School. With more than 4,000 students, T.C. Williams is one of the largest high schools in Virginia. The school draws from a population that is economically, educationally, racially and ethnically diverse. The Governor's Academy inaugural class of 100 ninth graders is representative of T.C. Williams' diverse population.

ACPS is committed to ensuring that each and every student succeeds, which is articulated in the system's mission: "Every student succeeds: Educating lifelong learners and inspiring civic responsibility."

The George Washington University School of Medicine and Health Sciences

Founded in 1824, the GW School of Medicine and Health Sciences (SMHS) was the first medical school established in Washington, D.C., and is the 11th oldest in the country. Working together in our nation's capital, with integrity and resolve, the GW SMHS is committed to improving the health and well-being of our local, national, and global communities.

Health Sciences is an innovative and dynamic educational and research division within SMHS, where the nation's next generation of leaders are being trained in physical therapy, rehabilitation sciences, physician assistant studies, medical laboratory sciences, health care quality, regulatory affairs, clinical and disaster relief operations, clinical and translational research, and numerous other health-related disciplines. There are more than 45 programs and degrees at the associate's, bachelor's, master's, and doctoral levels offered in the Health Sciences. Graduate certificate, dual degree, joint, and military-affiliated programs as well as fellowships, residencies and post-baccalaureate certificates are offered.

"To see this program recognized as a Governor's Academy ahead of schedule is a fantastic achievement and one we should all be proud of. This is the perfect example of how a public-private partnership can work to serve our students and fulfill the workforce needs of Northern Virginia."

Gregory C. Hutchings, Jr., EdD
Superintendent of Schools, Alexandria City Public Schools

Q: Who is eligible to apply?

A: Rising ninth and tenth graders who are City of Alexandria residents.

Q: How much does it cost to attend the Governor's Health Sciences Academy?

A: There is no tuition or fees to attend.

Q: How do I apply for the Governor's Health Sciences Academy?

A: To apply talk to your school counselor. The application includes a statement of interest, transcript, and three recommendations. Applications are due in April 2019.

Q: When will I hear if I'm accepted?

A: The second Academy class of up to 100 students will be notified in June 2019.

Q: What should I do to prepare for the Academy?

A: Accepted students are required to attend the Academy's summer bridge program the summer before the ninth grade, which will help prepare you for the college-level coursework. You'll also learn about career options in the health sciences.

Q: If I attend the Governor's Health Sciences Academy, do I still earn a high school diploma?

A: Yes, Academy students who successfully complete all their coursework will fulfill the Virginia Department of Education requirements for a diploma.

Q: What are my options after graduating from high school and the Academy of Health Sciences?

A: Academy graduates will have many options they can pursue. Graduates who are ready to enter the workforce can get a job in an entry-level health care services position. Using your GW credits to continue your education is also possible -- you can pursue an associate's degree at a community college or further your studies at SMHS. You can also take your GW transcript and seek transfer credit at another school.

To learn more, visit the GW Strategic Partnership website *smhs.gwu.edu/hssp* or the ACPS website *www.acps.k12.va.us/healthsciences*

School of Medicine
& Health Sciences
THE GEORGE WASHINGTON UNIVERSITY

ACPS
Alexandria City Public Schools