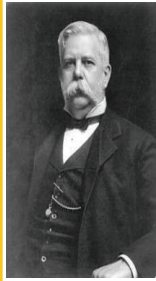


## Academics

For the first time we implemented the Talent Development (TD) model in our approach to teaching in the various disciplines throughout the school, and across all grade levels, while making sure our curricula are closely aligned with the New York State Performance Standards. All students are required to take four years of English, 4 years of Social Studies, 1 year of Foreign Language. 1 term each of Music and Art, 3 years of Math and 3 years of Science.. In addition students are required to choose a major technology sequence during the 9th grade in the following subject area for the Design and Engineering Academy: Vision Care Technology, Multi-Media, or Project Lead the Way (Pre-Engineering.) They will follow these challenging course sequences over three years and upon graduation can receive certification in their concentration after completing a rigorous exam for an advanced diploma. All students are required by the State of New York to take Regents exams in various subjects. This includes English, World History, Mathematics, Science, and US History. Students must receive a grade of 65% or better to receive Regents Diploma.

## DID YOU KNOW ?



George Westinghouse, Jr., was considered to be the most productive inventor of his time.

He helped steer the Industrial Revolution, with his drive to

resolve both social and commercial issues. His creations changed the way society lived and traveled.

- Most of the faculty are G.W.H.S alumni.



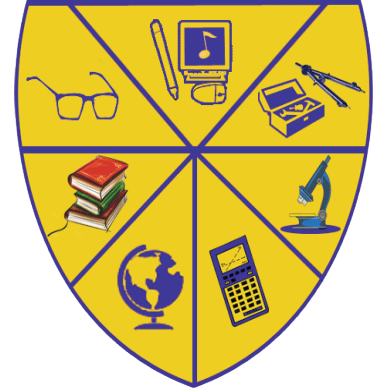
### Mission Statement

George Westinghouse High School offers all students an integrated academic and technical curriculum designed to provide real world, project-based learning experiences within an innovative and challenging instructional environment. The School is a pioneering educational center that offers students, parents, universities and community based partners and opportunity to be part of an information technology complex that prepares students for a successful post-secondary education and a career in the ever-changing global marketplace.

DESIGN & ENGINEERING ACADEMY

George Westinghouse HS

## Design Academy



Janine Kieran  
Principal

Dr. Raju Philip  
Academy Director

G.W.H.S.  
105 Tech Place  
Brooklyn, New York  
11201

718-625-6130  
[www.withs.org](http://www.withs.org)

# “We Envision, Design and Engineer it”

## VISION CARE TECHNOLOGY (VCT)



VCT is the theory and application associated with the manufacture and repair of eyewear. Our students will examine written prescriptions to determine the specifications of lenses. They recommend eyeglass frames, lenses, lens coatings after considering the prescription, and the customer's occupation, habits and facial features. They also will measure the customer's eyes, including the distance between the centers of the pupils and the distance between the ocular surface and the lens. Some of our senior students have the opportunity to choose the Virtual Enterprise web based non-profit corporate program that gives valuable business experience and responsibility. Our graduating seniors are prepared to enter the work force or continue their education with our partner school New York College of Technology and earn an A.A.S. in Ophthalmic Dispensing.

### Occupational Outlook:

- **Optician**
- **Ophthalmic sales representative**
- **Optical technician**
- **Lens manufacturer**

In collaboration with:



## MULTIMEDIA



The multimedia program for students is designed to assist students in becoming associate level website designers, desktop publishers and entry level video producers. Throughout this course, students use a variety of programs including Photoshop and JavaScript to create graphical and interactive websites for various interests. The multimedia program teaches the basics of manipulating digital images, customizing graphics for publications online and in print. The students will also learn to create custom website templates, and explore animation video screening.

### Occupational Outlook :

- **Computer programmers**
- **Motion picture and video industries**
- **Desktop publishers**
- **Computer systems analysts**
- **Graphic designers**
- **Radio and telecommunications equipment installers and repairers**

## PROJECT LEAD THE WAY (PLTW)



PLTW is an introduction to engineering design course that provides students with opportunities to be creative and apply their problem-solving skills to design problems. They use powerful computer hardware and software (Inventor) to develop 3-D models or solid renderings of objects. Using a Computer Aided Design System, they also learn the product design process through creating, analyzing, rendering and producing a model.

### Occupational Outlook:

- **Mechanical engineer**
- **Electrical engineer**
- **Industrial design**
- **Aeronautical engineer**
- **Civil engineer**
- **C.A.D.D design technician**
- **Architecture**

In collaboration with:





