

WHY DATA SCIENCE?

FUTURE READY →

Overview

Data science is a field in the technology sector that combines computer science, statistics and business to organize data, make meaning from it and guide decision making.

Career Outlook

According to the Bureau of Labor Statistics the number of data scientist jobs is expected to grow 22 percent over the next decade, much faster than the average growth rate for all jobs. The median salary for data scientists is \$126,830 a year according to the Bureau of Labor Statistics.

Data Science is a part of nearly all industries. With the advent of Big Data, Data Science has emerged as a necessity for any company or organization who wishes to successfully compete in virtually any market in the Information Age. As a result, Data Science will be in demand for decades to come.



Why Choose Us

Our program is unique in Brooklyn and in all of New York City. Students are placed in an accelerated course of study beginning the summer of their Freshman year. Additionally, students are immersed in real-world experiences via workplace learning, remote and live workshops, and site visits with industry professionals. Our curriculum reflects the latest in industry trends and innovations.

Our Approach

From the outset, students engage in project-based learning with the enhancement of problem-solving skills at its core. Students develop critical thinking, analytical skills, growth mindset, and technical skills in a supportive and rigorous classroom environment. Students engage with real-world data sets and learn the latest technology to deconstruct, analyze, and draw inferences and insight. Students learn from qualified faculty as well as professionals in the industry.



GET IN TOUCH



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DATA SCIENCE





CAREER CONNECTED LEARNING

Career-Connected Learning is central to our program. CCL is an educational model that brings together high schools, post-secondary institutions, and employers to create an approach that combines classroom instruction with relevant, real-world experience. Students engage in Work-Based Learning opportunities throughout their 4-year career at GWHS.

The goal of Career Connected Learning is to to prepare students to succeed in a rapidly changing economy.

Studies show an increase in academic persistency for students that participate in CCL both in high school and college—especially students from under-represented backgrounds.



Access to Advanced Tools AND TECHNOLOGY

& CERTIFICATIONS

Our students endeavor in a modern computer lab with access to high quality software and other resources. Students will also graduate with a number of certifications, including MS Excel, Data Analytics, etc. Students will also develop proficiency with crucial technologies, such as python, SQL, XML, etc.

4 - YEAR SEQUENCE



Curriculum Notes

Our curriculum has been carefully devised to ensure that students are prepared to take on the challenges of one of the fastest growing careers in the world. Our curriculum is vetted by industry professionals and continuously updated with input from various stake holders. All decisions and activities are designed to place the student at the center of the curriculum.

• 9th Grade

- Introduction to Computer Science
- Introduction to Python Programming
- Career & Financial Management

• 10th Grade

- Data Analytics I
- Data Analytics II
- Career & Financial Management

• 11th Grade

- AP Statistics
- Artificial Intelligence
- Career & Financial Management

• 12th Grade

- Machine Learning
- Capstone Project
- Career & Financial Management