A minor in bioinformatics is available on both the Rose Hill and Lincoln Center campuses. Bioinformatics is an emerging interdisciplinary field fusing mainly biological sciences and computer sciences and encompassing the knowledge and tools of other science disciplines. Bioinformatics studies the sequence, structure, and function of genes and proteins in all living organisms, including the human species. When dealing with an influx of raw information, a significant amount of effort is spent on how to effectively and efficiently warehouse and access these data and on new methods and algorithms aimed at mining this warehoused data in order to make novel discoveries in biology, medicine, and pharmaceuticals. Some examples of the topics are genomics, proteomics, phylogenetics, systems biology, DNA microarray gene expression, protein chip, and next generation sequencing (NGS) data analysis, genomic medicine, biomarkers for cancer and disease, drug discovery and design for disease and disorders, database and data mining, network form and function, and ESL (ethical, societal, and legal) issues.

For more information
Visit the Bioinformatics minor program webpage.