THE BIOSTATISTICS CONCENTRATION prepares students for careers in public health by providing the skills needed to develop and apply statistical principles to evaluate and solve complex public health problems. Students learn statistical reasoning and methods in order to analyze and address problems in public health; health care; and biomedical, clinical and population-based research. Upon graduation, students will be able to:

- Apply descriptive and inferential methodologies according to the type of study design for answering a particular research question.
- Harness basic concepts of probability, random variation and commonly used statistical probability distributions.
- Distinguish among the different measurement scales and the implications for selection of statistical methods to be used based on these distinctions.
- Implement the appropriate analytic methods for calculating key measures of association.
- Utilize preferred methodological alternatives to be commonly used statistical methods when assumptions are not met.
- Interpret results of statistical analyses found in public health research studies.
- Utilize relevant statistical software for data analysis.

The 46-credit Biostatistics curriculum offers an innovative and interdisciplinary approach through which students embark on a rigorous course of study. It includes core public health and concentration courses, electives, as well as a practice experience and a two-semester MPH thesis.

Core courses promote knowledge of and training in core public health concepts ranging from biostatistics, epidemiology, environmental health, health policy and management, public health biology and social and behavioral health. Biostatistics concentration required courses covers topics including, but not limited to: probability, data utilization, regression and multivariable modeling and time series analysis.

Elective courses allow for more in-depth study that covers areas as diverse as Genomics and Health, Global Burden of Infectious Disease, Advanced Geographical Information Systems, and Psychometric Measurement and Analysis in Public Health Research and Practice.
The Applied Practice–Experience is the culminating experience of the program in which students apply their knowledge and skills in a real-world setting through a public health internship for a minimum of 180 hours followed by a thesis. The thesis addresses a specific public health topic, with the general expectation that the finished product demonstrates concentration competencies, meets academic and professional standards, and is of a quality useful to some external audience (e.g., journal readers, practitioners, advocates, other researchers).

Students will benefit from countless opportunities to build skills and experience preparing them for successful careers in public health. They will be able to:

- Gain practical experience and training through internships, fellowships, employment, and volunteer opportunities with influential international organizations and domestic agencies such as NYC Department of Health; UN agencies including WHO, World Food Programme, and UNICEF, and the World Bank.
- Participate in student-run groups such as the GPH Student Governing Council, the Peer Health Exchange, and the Public Health Leaders Organization to bring their public health knowledge to local communities.
- Join one of over 20 faculty-led student labs, centers and initiatives: Applied Global Public Health and Development; Center for Health, Identity, Behavior and Prevention Studies (CHIBPS); Program on Population Impact, Recovery and Resilience (PiR²); NYU mHealth Initiative; SocioEconomic Evaluation of Dietary Decisions (SEEDProgram); Spatial Epidemiology—all providing leadership and networking opportunities.
- Get guidance from our partner, NYU’s Wasserman Center for Career Development, one of the top career resource centers in the nation, and access to professional associations such as the American Public Health Association (APHA) and American Statistical Association (ASA).

Upon graduation students will also benefit from being part of GPH’s growing alumni network around the world.

Applicants must hold a bachelor’s degree or higher from a regionally accredited college or university. International candidates must hold the equivalent of a U.S. bachelor’s degree. The program does not require previous work and/or research experience to apply. Program scholarships are available and other forms of financial aid can help you finance your studies. All applications and materials are due by February 1st. To apply directly, visit: sophas.org.

**CONTACT US TO LEARN MORE**
We encourage prospective students to explore our website and visit the campus to meet students and faculty, and even sit in on a class. GPH is committed to helping you discover the right academic path for you in the field of global public health.

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