CURRICULUM

Students complete the program in two years (full time) or three to four years (part time). An individual program plan is developed for each student based on education, experience and career goals.

Total: 36 credits

Required Core Courses (6 credits)
- Introduction to Biostatistics
- Introduction to Epidemiology

Required Biostatistics Concentration Courses (24 credits)
- Statistical Modeling
- Intermediate Biostatistics I
- Intermediate Biostatistics II
- Survival Analysis
- Mathematical Statistics I: Probability
- Mathematical Statistics II: Inference
- Introduction to SAS Programming for Data Management and Analysis
- Survey Sampling and Data Analysis

Electives (6 credits)
Selected in consultation with an advisor

LOCATION

New York Medical College is located on a 54-acre suburban campus in Valhalla, New York, 15 miles north of New York City. The College is easily accessible by highway and is seven miles from the Tappan Zee/Governor Mario M. Cuomo Bridge. Frequent rail and bus service is available. Directions are available at www.nymc.edu/directions.

ABOUT US

Founded in 1860, New York Medical College (NYMC) is one of the nation’s largest private health sciences colleges. A member of the Touro College and University System, NYMC is located in Westchester County, New York, and offers degrees from the School of Medicine, the Graduate School of Basic Medical Sciences and the School of Health Sciences and Practice, as well as a school of dental medicine and a school of nursing. NYMC provides a wide variety of clinical training opportunities for students, residents and practitioners. The College has a strong history of involvement in the social and environmental determinants of health and disease and a special concern for the underserved.

FOR MORE INFORMATION

Office of Admissions
School of Health Sciences and Practice
Phone: (914) 594-4510
Email: shsp_admissions@nymc.edu

New York Medical College
40 Sunshine Cottage Road
Valhalla, New York 10595
www.nymc.edu/shsp

MASTER OF SCIENCE IN BIOSTATISTICS
Use Scientific Methods to Understand the Association Between Risk Factors and Disease to Determine the Cause of Disease

A Master of Science (M.S.) in Biostatistics will arm you with the tools to build and interpret predictive models to assess health outcomes and develop systems for optimal health care delivery. Biostatistics focuses on the methodologies and procedures of statistical analysis, as well as research design, and plays a role that drives public health and biomedical research. Biostatisticians have career opportunities in the pharmaceutical and biotechnology industries, government agencies, academic medical centers and nonprofit organizations.

The program offers:

- A curriculum that is responsive to current public health issues
- Small class size
- Ongoing individualized advisement
- Faculty engagement with health departments and health systems
- Excellent career opportunities

Admissions Requirements

- Bachelor's degree, with a minimum GPA of 3.0
- Official transcripts* of all post-secondary schools attended
- Statement of purpose indicating applicant's career and professional goals
- Resume or curriculum vitae
- Three recommendations

Note: GRE not required

*Students with international credentials must submit TOEFL/IELTS scores and educational evaluations. Admission and other information for international students is available at www.nymc.edu/shsp.

Prerequisites

The M.S. in Biostatistics is a quantitatively-oriented graduate program. To ensure success in this program, our faculty look for a strong background with a demonstrated quantitative ability. While no particular major is required for this program, it is helpful for students to have some background in one of the following:

- Mathematics
- Statistics
- Chemistry
- Biochemistry
- Biology
- Physics
- Biotechnology
- Finance
- Accounting
- Experimental Psychology
- Computer Science
- Information Systems

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Public Health Connection

Biostatisticians are making significant progress in identifying the best way to deploy resources addressing major public health concerns based on trends and risk factors of diseases affecting a population. Through advanced statistical methodologies, research and other emerging insights, biostatisticians aid health care leaders in designing innovative approaches to implementing the best evidence-based practices during a health care crisis.