The Wayne State University Master of Public Health degree is designed for individuals with a range of academic and professional backgrounds. Public health professionals are concerned with disease prevention, health promotion, and clinical intervention. Learning occurs in interdisciplinary teams and builds on professional expertise (nursing, medicine, pharmacology, social work, dentistry, veterinary science, allied health) and the social and basic sciences. The five core areas of public health are biostatistics, epidemiology, health behavior, environmental health, and health care administration. The MPH degree has two concentration options: Public Health Practice and Biostatistics.

The Master of Public Health in Biostatistics (MPH-BIST) emphasizes statistical theory and application and statistical computing. Public health biostatisticians work on research teams to design biological and public health studies and to analyze/interpret the resulting data. The program is administered by the School of Medicine, Department of Family Medicine and Public Health Sciences in accordance with WSU Graduate School policy. (http://www.familymedicine.med.wayne.edu/mph). The mission of the MPH Program is to educate and engage students in public health theory, practice, and research to understand and improve the health of urban and diverse populations.

**MPH–BIST DEGREE REQUIREMENTS**

A minimum of **42 credit hours** are required for graduation. A minimum grade point average of **3.0** in coursework must be maintained. All work must be completed within six years.

The following lists courses required in three areas: the core, the concentration and electives (if required). All students are required to complete a **practicum experience** (3 credit hours) and a **final project** (3 credit hours) as part of their concentration requirements.

**Core Required Courses (20 credit hours)**

- FPH 7010 Seminar in Public Health (1 credit)
- FPH 7100 Health Care Organization and Administration (3 credits)
- FPH 7150 Probability, Distribution Theory and Inference (4 credits)
- FPH 7160 General Linear Model /Linear Regression and ANOVA (3 credits)
- FPH 7240 Epidemiology (3 credits)
- FPH 7320 Social Basis of Health Care (3 credits)
- FPH 7420 Principles of Environmental Health (3 credits)

**Biostatistics Concentration Courses (16 credit hours)**

- FPH 7340 Generalized Linear Models and Categorical Data (4 credits)
- FPH 7350 Advanced Statistical Programming (3 credits)
- FPH 7460 Linear Mixed Models (3 credits)
- FPH 7480 Design of Experiments and Clinical Trials (3 credits)
- FPH 7500 Survival Analysis (3 credits)

**MPH in Biostatistics Practicum**

- FPH 7440 Practicum (3 credits)

**MPH in Biostatistics Master’s Project**

- FPH 8990 Master’s Project (3 credits)