

Biostatistics

Zoran Bursac, *Professor and Chair*

Changwon Yoo, *Associate Professor*

Boubakari Ibrahimou, *Assistant Professor*

Tan Li, *Assistant Professor*

Emir Veledar, *Courtesy Associate Professor*

The Department offers a major in Biostatistics for the College's MPH degree, which covers basic applied biostatistics especially as required for public health and community health research and practice.

MPH in Biostatistics

Biostatistics is a field that facilitates the conduct of health and medical research through a focus on designing sound experiments and studies relevant to human health and through the process of collecting, managing, analyzing and interpreting data. Biostatisticians collaborate in the identification and refinement of important research questions and in the methods and procedures required to obtain high quality and reliable answers to these questions. There remains a shortage of professional biostatisticians and the field provides meaningful and rewarding careers for those interested and able to go down this path.

Admission Requirements

Applicants must meet the University's general graduate admission requirements:

1. A Bachelor's degree or equivalent from an accredited college or university or, in the case of foreign students, an institution recognized in its own country as preparing students for further study at the graduate level.
2. A minimum 3.0 GPA on the last 60 under-graduate hours. In addition, applicants are required to submit 1) a current resume; and 2) a written statement of purpose (career goals). Applicants are also encouraged to submit three letters of recommendation.
3. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required. Students with diverse backgrounds are encouraged to apply.
4. Submission of official GRE scores. Scores must be less than 5 years old.
5. Preference will be given to applicants having completed coursework in mathematics through calculus.
6. Applicants with MCAT or DAT scores, or PhD degrees, practicing physicians, dentists, or pharmacists or individuals with equivalent background who meet all other departmental requirements (including their verified degrees and institutions from US or abroad by WES) are not required to submit a GRE, or equivalent, standardized test score.

MPH Core Curriculum: (15 credits)

PHC 6000 Epidemiology I: Introduction to Public Health Epidemiology

PHC 6065	Public Health Statistics	3
PHC 6102	Introduction to Public Health Policy and Management	3
PHC 6315	Introduction to Environmental Health Sciences	3
PHC 6410	Health Behavior and Public Health	3

Major in Biostatistics: (15 credits)

PHC 6055	Data Management and Applied Epidemiologic Analysis	3
PHC 6064	Model for Binary Public Health Outcomes	3
PHC 6190	Biostatistical Methods for Survey Research	3
PHC 6091	Biostatistics 2	3
PHC 7719	Quantitative Multivariate Analysis in Health Sciences Research	3

Electives for Biostatistics: (9 credits)

PHC 6056	Longitudinal Health Data Analysis	3
PHC 6059	Cohort Studies and Lifetime Events in Public Health	3
PHC 6086	Cluster Analysis for Public Health	3
PHC 6067	Probabilistic Graphical Models	3
PHC 6907	Independent Study: Public Health	3
PHC 7050	Advanced Biostatistics I	3

Practicum and Culminating Experience: (6 credits)

PHC 6945	Practicum in Public Health	3
PHC 6930C	Integrative Seminar in Public Health	3

PHC 6945 (Practicum) and PHC 6930C (culminating experience) are both required for all MPH students. The Practicum may be taken after completing a minimum of 30 hours, including all core courses. The Practicum may be waived if the student has at least 3 years of relevant practice experience working in a public health practice setting. The waiver request is prepared and submitted by the student, through their Faculty Advisor and Department Chair, for final approval/disapproval by the Academic Public Health Director. If the Practicum requirement is waived, the student will need to substitute 3 additional approved hours so that the total curriculum hour requirement of 45 is met. MPH students are expected to complete PHC 6930C Integrative Seminar in Public Health during their last semester in the program.

For additional and updated information about degrees offered, entrance requirements, and services, please visit the College's website: <http://stempel.fiu.edu>.