

DEPARTMENT OF BIOINFORMATICS AND BIostatISTICS

Joint BA-MS Program with Kentucky State University

The Department of Bioinformatics and Biostatistics at the University of Louisville (UofL) is proud to partner with Kentucky State University (KSU) in offering a joint BA-MS program. Participating students will work toward a Bachelor of Arts (BA) in Mathematics at KSU and a Master of Science (MS) in Biostatistics at UofL. Study toward the MS in Biostatistics begins in a student's 4th year of their BA coursework, so that both the BA and MS degrees can be earned in 5 years of study.

Who We Are

The Department of Bioinformatics and Biostatistics is part of the School of Public Health and Information Sciences (SPHIS) at UofL. Our mission is to advance statistical science through methodological research, provide statistically sound collaboration to investigators in the biomedical sciences, and educate new biostatisticians and data scientists. SPHIS is fully accredited by the Council on Education in Public Health.

MS Curriculum

Our MS curriculum offers a rigorous introduction to the theory and practice of biostatistics, from foundational courses in mathematical probability and statistics to subject-specific classes in clinical trials, survival analysis and more.

- Probability and Mathematical Statistics (6 hrs)
- Biostatistical Methods I and II (6 hrs)
- Clinical Trials I and II (4 hrs)
- Survival Analysis, Categorical Data Analysis (6 hrs)
- Biostatistics Practicum (2 hrs)
- Biostatistics and Epidemiology Electives (6 hrs)

The MS curriculum focuses on applications of biostatistical methods to prepare students to enter the workforce. The culminating experience for the MS is the Biostatistics Practicum, where students actively collaborate with researchers. A master's thesis is not required for graduation. However, students interested in pursuing a doctorate in the future are encouraged to write and defend a thesis in the last semester.

UNIVERSITY OF
LOUISVILLE
SCHOOL OF PUBLIC HEALTH
& INFORMATION SCIENCES



Jobs in Biostatistics

Biostatisticians are highly sought after in the labor force, and traditionally find work in the pharmaceutical, biomedical, and insurance industries as well as in government and academia. Our graduates have moved on to positions at prestigious institutions including:

- Harvard University & Johns Hopkins University
- The National Institutes of Health
- Humana, Google, UPS, & Texas Children's Hospital

Biostatisticians are well-suited for careers as data scientists and statisticians, hailed by Forbes Magazine as the #1 and #2 Best Jobs of 2016.

A Master's in Biostatistics is worth the investment and can begin paying off immediately after graduation. According to the American Statistical Association's 2013 Salary Survey of Business, Industry, and Government Statisticians:

Degree	Median Entry-Level Salary
Bachelor's	\$56,000
Master's	\$75,000

How to Enroll

If you are interested in the joint BA-MS program, contact a faculty advisor or the chair of the KSU Division of Mathematics and Sciences, preferably no later than your junior year, to let them know you intend to enroll. The final semester of your senior year will be spent at UofL, taking classes toward the MS in Biostatistics degree. Visit the SPHIS website to view the admission requirements.

▶▶▶ Learn more at louisville.edu/sphis or 502-852-1827