

## MASTER OF SCIENCE IN BIOSTATISTICS

The Master of Science in Biostatistics (MSBST) is a 33-credit hour program consisting of 21 credits in core biostatistics courses and a culminating project, which gives candidates the opportunity to learn consulting and collaboration practices through valuable experiential learning opportunities. The remaining 12 hours are a mix of customizable electives from the Department of Biostatistics and the Department of Epidemiology. Courses are offered in the Fall and Spring semesters each year.

### FUTURE CAREERS

The Master of Science in Biostatistics (MSBST) program offers a unique mix of core and elective courses, real-world projects, experiential learning/training opportunities to prepare our graduates to make an impact in the Commonwealth of Kentucky, the region, and beyond. Graduates of Master of Science in Biostatistics degree programs often pursue careers in the following:

- Pharmaceutical corporations
- Medical insurers
- Government agencies (FDA, NIH, Census Bureau)
- Universities and research institutions
- Hospitals and cancer centers

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## ADMISSIONS REQUIREMENTS

Pre-requisite Course Work: Calculus I, Calculus II, and Introductory Statistics/Biostatistics.

- The Department of Biostatistics understands that not all interested students will have completed the prerequisite coursework as a part of their academic studies. To help students meet these requirements, the department offers the prerequisite courses during the summer as online, asynchronous courses. Interested students are highly encouraged to contact the Director of Graduate Studies for the program for more information.
- Interested students without these classes need to apply by March 1 to be able to enroll in the pre-requisite coursework.

## FULL TIME SAMPLE SCHEDULE (2 YEARS)

Year 1 Fall	Year 1 Spring	Year 2 Fall	Year 2 Spring
BST 681	BST 635	BST 693	BST 699
BST 675	BST 682	Elective	Elective
Elective (BST 535 recommended)	CPH 712	Elective	

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## PART TIME SAMPLE SCHEDULE (3 YEARS)

Year 1 Fall	Year 1 Spring	Year 2 Fall	Year 2 Spring	Year 3 Fall	Year 3 Spring
BST 681	BST 635	BST 675	BST 682	BST 693	BST 699
Elective (BST 535 Recommended)	CPH 712	Elective	Elective	Elective	

Applicants are encouraged to apply early, and opportunities are available for students who do not have all of the prerequisite courses.

Students applying to the Master of Science in Biostatistics program must submit a:

- **Primary application** (for the College of Public Health)
- **Supplemental application** (for the University of Kentucky).

The primary application must be submitted using the Schools of Public Health Application Service (SOPHAS). The admissions committee will review the SOPHAS application before the applicant completes the supplemental application.

Ideal candidates for the MSBST program are those with a mathematics background or STEM education, along with a commitment to public health and biomedical science. Working professionals in the health-related workforce seeking additional advanced training in the design, analysis, and communication of Biomedical Data Studies are also encouraged to learn more.

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# CERTIFICATE IN BIOSTATISTICS



The Graduate Certificate in Biostatistics is a 15-credit hour graduate certificate that allows students to develop foundational skills in the design and analysis of biomedical studies. These skills are necessary for conducting quantitative research in public health and medicine, and they are attractive to future employers.

A graduate certificate is not a degree program, but it does provide formal recognition of the mastery of foundational biostatistics. The certificate is designed for students studying in degree programs outside the Department of Biostatistics or for professionals seeking continuing education.

## **Upon successful completion of the Graduate Certificate in Biostatistics, students will be able to:**

- Identify and apply appropriate statistical methods for analyzing public health and biomedical data
- Summarize statistical designs, including design issues and power calculations, and their applications in solving public health and biomedical problems
- Interpret and convey statistical findings
- Use technology to perform statistical procedures

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## Student Public Health Association

The Student Public Health Association (SPHA) at the University of Kentucky College of Public Health is dedicated to supporting the College's mission and vision through advancing sound public health policy, highlighting public health opportunities, and increasing awareness of the challenges that public health professionals face.

SPHA hosts regular meetings with peers and guest panelists, facilitates community engagement events and student activities, and offers a variety of opportunities for students to engage with practicing public health professionals.

