

# Graduate Certificate in Biostatistical Applications

ONLINE AND IN-PERSON

## Minimum Admissions Requirements

1. Online application: [gograd.ku.edu/apply](https://gograd.ku.edu/apply) (Applicants will need to select "Medical Center Application" when prompted.)
2. Official transcript for bachelor's degree-granting institution emailed to: [stats\\_education@kumc.edu](mailto:stats_education@kumc.edu)
3. Contact information for three recommenders.
4. Cumulative undergraduate GPA of 3.0 or better from an accredited college or university. International transcripts require a [NACES.org](https://www.naces.org) member evaluation.
5. B average or higher in Calculus I (or equivalent), or a quantitative GRE score in the 70th percentile or higher.
6. B or better in a graduate-level introductory statistics course (e.g. BIOS 717: Fundamentals of Biostatistics II or equivalent)
7. English Proficiency Test scores unless exempt or a Native English Speaker
8. Current KU/KUMC students must be in good standing (3.0 or higher GPA) and have a supportive letter of approval from their current graduate program to enroll

### Application deadlines:

Spring: Jan. 1 | Summer: May 1 | Fall: Aug 1

## Career Outlook

With the rising emphasis on highly personalized data in health care, pharmaceutical, insurance and other organizations, so rises the need for health data scientists. The U.S. Bureau of Labor Statistics estimates a 31 percent growth in jobs for data scientists over the next 10 years (2019-2029) and reports a current median salary of \$124,100 for data scientists. Our program will bring statistics and data science together with a focus on health data. This combination of skill sets is highly sought after and is required in many healthcare institutions and industries.

The Graduate Certificate in Biostatistical Applications typically complements prior education and careers in:

- Pharmaceutical Industry
- Health Care
- Actuarial
- Consulting
- Education
- Health Analytics & Research
- Government
- Biotechnology

Graduating with this certificate will open new doors to a more rewarding career.

**KU** DEPARTMENT OF  
BIostatISTICS & DATA SCIENCE  
The University of Kansas Medical Center

<https://biostatistics.kumc.edu>

## WHY STATISTICS & DATA SCIENCE?



### STATISTICIAN

Median annual salary:  
\$98,920

### DATA SCIENTIST

Median annual salary:  
\$103,500

## Ranked in Top 100 Best Jobs

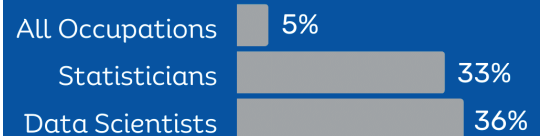
#6 Statistician  
#8 Data Scientist

According to U.S. News and World Report

#1

Fastest Growing  
Tech Career is  
Data Scientist

According to  
Forbes  
Magazine



Projected Job Growth from  
2021 to 2031

Bureau of Labor Statistics

## Curriculum

This 12-credit hour program consists of coursework in biostatistical applications. The certificate requirements vary depending on whether the student is currently seeking a graduate degree at any of the KU campuses or not.

### Students concurrently completing a KU or KUMC Graduate Degree:

Complete at least four classes from the following list:

BIOS 715: Introduction to Data Management using RedCap and SAS

BIOS 720: Analysis of Variance

BIOS 725: Applied Nonparametric Statistics

BIOS 730: Applied Linear Regression

BIOS 735: Categorical Data and Survival Analysis

BIOS 740: Applied Multivariate Methods

BIOS 799: Introduction to Statistical Genomics

### Financial Assistance

To maximize your financial aid options, apply for admissions by November 1 (Spring) or May 1 (Fall/Summer) and complete your FAFSA by December 1 (Spring) or June 1 (Fall/Summer).

Financial assistance:

<https://www.kumc.edu/financialaid>

### Students NOT concurrently completing a KU or KUMC Graduate Degree:

Complete two statistical foundation classes and at least two electives:

#### Statistical Foundation

BIOS 720: Analysis of Variance

BIOS 730: Applied Linear Regression

#### Electives

BIOS 715: Introduction to Data Management using RedCap and SAS

BIOS 725: Applied Nonparametric Statistics

BIOS 735: Categorical Data and Survival Analysis

BIOS 740: Applied Multivariate Methods

BIOS 799: Introduction to Statistical Genomics

### Tuition and fees

<https://www.kumc.edu/tuition-and-fees>



### Contact

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