

# Graduate Certificate in Health Data Science

ONLINE AND HYBRID OPTIONS

## Admissions

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 bachelors 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 in a completed bachelor's degree. For applicants who do not meet this threshold, a petition may be submitted requesting an exception at the discretion of the department. International transcripts require a [NACES.org](https://www.naces.org) member evaluation.
5. B average or higher in Calculus I and II courses (i.e., single variable differentiation and integration or equivalent) or STAT 655
6. Completion of any computer programming language course or demonstration of mastery via credentials or work experience
7. English Proficiency Test scores unless exempt or a Native English Speaker
8. GRE optional

## 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 36 percent growth in jobs for data scientists over the next 10 years (2021-2031) and reports a current median salary of \$103,500 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 Health Data Science typically compliments prior education and careers in:

- Pharmaceutical Industry
- Health Care
- Insurance Company
- Consulting
- Education
- Health Analytics
- Health Research
- Government
- Biotechnology

## 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

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

<https://biostatistics.kumc.edu>

## Curriculum

This 15-credit-hour program is organized into four sections: required statistics foundation (3 credit hours), required computing foundation (3 credit hours), required health data science foundation (3 credit hours) and electives (6 credit hours).

### Required Statistics Foundation | 3 credit hours

- HDSC 840: Linear Regression

### Required Computing Foundation | 3 credit hours

- HDSC 823: Introduction to programming and Applied Statistics in R

## Tuition & Financial Assistance

Tuition and fees:

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

### Required Health Data Science Foundation | 3 cr hrs

- HDSC 861: Observational Health Data Analytics

### Electives | 6 credit hours

- HDSC 815: Introduction to Bioinformatics
- HDSC 820: SAS Programming I
- HDSC 830: Experimental Design
- HDSC 855: Statistical Methods in Genomic Research
- HDSC 882: Statistical Learning II
- HDSC 883: Processing and Analysis of Medical Information Systems

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/financial-aid>



## Contact

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