Master of Science in Health Data Science

ONLINE AND HYBRID OPTIONS

Admissions

1. Online application: 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
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 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:

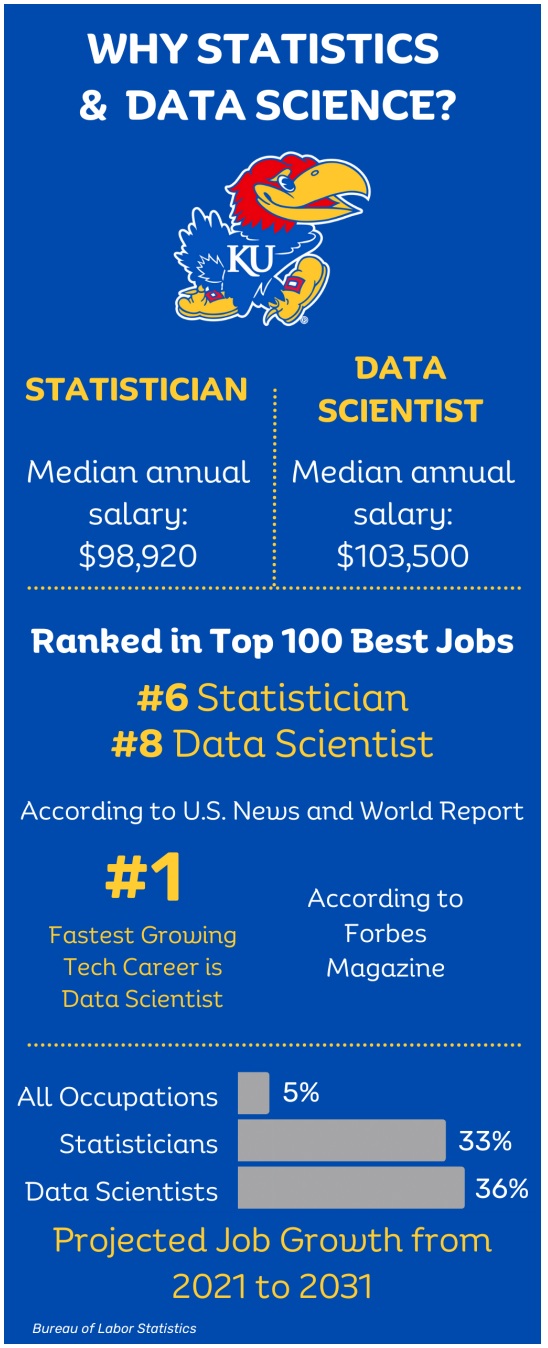
Spring: Jan. 1 | Summer: May 1 | Fall: Aug. 1

Career Outlook

With the rising emphasis on all-things-data in businesses and other organizations, so rises the need for statisticians and data scientists. The U.S. Bureau of Labor Statistics estimates a 33 percent growth in jobs for statisticians by 2031 and reports a current median salary of $98,920 for statisticians and $103,500 for data scientists. Organizations need them to harvest data and turn it into information and insights that drive actions and shape strategies.

The lucrative Master of Science in Health Data Science degree is a unique combination of Statistics, Data Science, and Health Informatics curriculum that sets graduates apart from the rest.

Forbes magazine ranked data science the fastest growing tech career and US News ranked Statisticians #6 and Data Scientists #8 in the top best jobs. Graduating with this degree 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

Curriculum

This 36-credit-hour program is organized into four sections: required statistics foundation (12 credit hours), required computing foundation (6 credit hours), required health data science foundation (12 credit hours) and electives (6 credit hours).

Required Statistics Foundation | 12 credit hours

- HDSC 805: Professionalism, Ethics and Leadership in the Statistical Sciences
- HDSC 835: Categorical Data Analysis
- HDSC 840: Linear Regression
- HDSC 845: Survival Analysis

Required Computing Foundation | 6 credit hours

- HDSC 818: Introduction to R
- HDSC 819: Introduction to Python
- HDSC 822: Introduction to SQL
- HDSC 823: Introduction to Programming and Applied Statistics in R

Required Health Data Science Foundation | 12 cr hrs

- HDSC 824: Data Visualization and Acquisition
- HDSC 861: Observational Health Data Analysis
- HDSC 880: Data Mining and Analytics
- HDSC 881: Statistical Learning I

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

Tuition & Financial Assistance

Tuition and fees:
https://www.kumc.edu/tuition-and-fees

Financial assistance:
https://www.kumc.edu/financialaid

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).

Contact

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Please request updated information after June 30, 2024.