

“The online Master of Science in Applied Statistics, Analytics, & Data Science program was just what I needed to jumpstart my career, and it has opened many doors for me that otherwise would not have been available. I attribute my success to the education and training I received in the program and its focus on preparing students for the job market.”

— Andrew Sargent,
Master of Science in Applied Statistics,
Analytics, & Data Science



Applied Data Science Graduate Certificate and Applied Statistics Graduate Certificate

Program overview

Extracting, refining, analyzing, and delivering data has enormous value in today's big data boom. Organizations need skilled data analysts to harvest data and turn it into information and insights that drive actions and shape strategies.

The Graduate Certificate in Data Science program teaches students to effectively communicate principles of statistics and analytics and to assist with design and implementation of data management systems. It is designed for students with strong math skills who may not have statistics-based academic backgrounds.

The Graduate Certificate in Applied Statistics teaches students to “ask the data” the right questions to find the answers. It builds on a student's foundation in statistical theory and practice to master and apply statistical methods with an emphasis on application.

These online graduate certificates complement prior education or careers in business, finance, accounting, marketing, education, mathematics, and health care.

To apply

<https://gograd.ku.edu/apply/>

Application deadlines

Spring 2025:	Jan. 1, 2025
Summer 2025:	May 1, 2025
Fall 2025:	Aug. 1, 2025

Tuition/Financial Aid

\$700/credit hour

edwardscampus.ku.edu/kumed-tuition

Questions?

Paige Rice, MEd
Academic Program Specialist
913-897-8400

price3@kumc.edu

Career outlook

Data analytics, statistics professionals and data scientists work in a wide variety of industries, including healthcare, public policy, environmental science, business, and public relations. Companies across every sector are seeking trained statisticians, data scientists, product and marketing specialists, data science managers, management consultants, business analysts, and more.

The job market has grown 27% between 2021 and 2024, and jobs titles that have seen the fastest growth are data scientists (45.79%), mathematicians (23.96%), actuaries (17.49%), and natural science managers (15.63%).



Program format

Online

Curriculum

The Graduate Certificate in Applied Data Science requires four graduate-level courses and offers state-of-the-art data science training. Advanced data science is the required core course of the program and must be completed the first semester. Students select three additional courses from a robust list of options such as machine learning, database systems, information retrieval, computer vision, bioinformatics, mathematical statistics, and statistical theory.

The Graduate Certificate in Applied Statistics requires a minimum of 15 hours, and courses cover topics such as programming, linear regression, data analysis, multivariate statistics, experimental design, and data mining and analytics.

A typical plan of study would be six hours in the fall semester, six hours in the spring semester, and three hours in the summer.



Learn more about the program at:
edwards-campus.ku.edu/overview-masters-applied-statistics-analytics

For program requirements and course descriptions, visit:
catalog.ku.edu/medicine/biostatistics/applied-data-science-gcert/

catalog.ku.edu/medicine/biostatistics/appstatgradcert/

SNAPSHOT OF JOB GROWTH AND AVAILABILITY IN APPLIED STATISTICS, ANALYTICS, AND DATA SCIENCE RELATED POSITIONS*

Current jobs in U.S. (2021):	98,915
Job growth (2021-24):	27.1%
Annual job openings:	17,360
Median earnings (2023):	\$108,800 per year

*Source: Lightcast - publicaffairs.ku.edu/about-lightcast

Backed by the power of KU

With highly credentialed and experienced faculty, robust student support services and resources, and flexible course formats, you'll receive the quality education you and employers expect from the nationally ranked and respected University of Kansas.

KU is one of just 38 public institution members of the prestigious Association of American Universities (AAU) and is designated as an R-1 university with extensive research programs, grants, and opportunities for graduate and undergraduate students.

Please request new materials after June 30, 2025.

