Master of Science in Applied Statistics, Analytics & Data Science

ONLINE

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, the need for statisticians and data scientists, and their salaries, continue to grow. Organizations need statisticians and data scientists to harvest data and turn it into insights that drive actions and shape strategies. The lucrative Master of Science in Applied Statistics, Analytics Data Science typically complements prior education and careers in marketing, accounting, business, finance, education, mathematics, and healthcare. Graduating with this degree will open doors to a more rewarding career.

Salaries

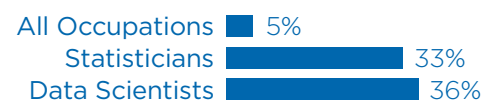| Statistician	Data Scientist
Median annual salary: $98,920	Median annual salary: $103,500

Ranked in Top 100 Best Jobs

#6 Statistician*
#8 Data Scientist*
#1 Fastest Growing Tech Career: Data Scientist [+]

* U.S. News & World Report   + Forbes

Projected Job Growth, 2021-2031

All Occupations 5%
Statisticians 33%
Data Scientists 36%

Bureau of Labor Statistics

edwardscampus.ku.edu/stats

THE UNIVERSITY OF KANSAS

Curriculum

This 30-credit-hour program is organized into three sections: required foundation, area of emphasis, and electives. There are 12 credit hours each of foundation coursework and emphasis area coursework and six credit hours of electives.

Required foundation | 12 credit hours
- STAT 805: Professionalism, Ethics and Leadership in Statistical Sciences
- STAT 835: Categorical Data Analysis
- STAT 840: Linear Regression
- STAT 850: Multivariate Statistics

Statistics emphasis | 12 credit hours
- STAT 820: SAS Programming I
- STAT 825: Nonparametric Methods
- STAT 830: Experimental Design
- STAT 871: Mathematical Statistics

Analytics emphasis | 12 credit hours
- STAT 820: SAS Programming I
- STAT 823: Introduction to Programming and Applied Statistics in R
- STAT 830: Experimental Design
- STAT 880: Data Mining and Analytics

Data science emphasis | 12 credit hours
- STAT 823: Introduction to Programming and Applied Statistics in R
- DATA 824: Data Visualization and Acquisition
- DATA 881: Statistical Learning I
- STAT 880: Data Mining and Analytics
  or DATA 882: Statistical Learning II

Elective courses | 6 credit hours
- DATA 817: Introduction to Tableau
- STAT 818: Introduction to R
- STAT 820: SAS Programming I
- STAT 821: SAS Programming II
- STAT 823: Introduction to Programming and Applied Statistics in R
- STAT 825: Nonparametric Methods
- STAT 830: Experimental Design
- STAT 833: Measurement for Statisticians
- STAT 845: Survival Analysis
- STAT 871: Mathematical Statistics
- STAT 880: Data Mining and Analytics
- DATA 819: Introduction to Python
- DATA 822: Introduction to SQL
- DATA 824: Data Visualization and Acquisition
- DATA 881: Statistical Learning I
- BIOS 810: Clinical Trials
- HDSC 861: Observational Health Data Analytics
- HDSC 883: Processing and Analysis of Medical Information Systems

Contact

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Tuition & financial assistance

$700 per credit hour
(includes tuition and fees)

Tuition and fees:
edwardscampus.ku.edu/tuition-fees

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

Financial assistance:
edwardscampus.ku.edu/financial-aid-scholarships