Graduate Certificate in Health Data Science

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 Health Data Science degree typically complements prior education and careers in:

- Pharmaceutical Industry
- Health care
- Insurance company
- Consulting
- Education
- Health Analytics
- Health Research
- Government
- Biotechnology

Fortune magazine ranked statistics and biostatistics among the top graduate degrees in 2015 and 2016 based on salary, growth and job satisfaction. Graduating with this degree will open new doors to a more rewarding career.

Admissions

Requirements for consideration by the Admissions Committee:

1. Online application: gograd.ku.edu/apply
   (Applicants will need to designate three recommenders)
2. Official transcript(s) mailed to: University of Kansas – Department of Biostatistics & Data Science; 3901 Rainbow Blvd., Kansas City, KS 66160 or Email to: stats_education@kumc.edu
3. Evidence of a Bachelor's Degree from an accredited College or University with cumulative GPA of 3.0
4. B average or higher in Calculus I, Calculus II
5. Successful completion of a course in any computer programming language or demonstration of mastery via credentials or work experience
6. TOEFL or IELTS test results (if applicable)

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

**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

**Required Health Data Science Foundation | 3cr hrs**
- HDSC 861: Observational Health Data Analytics

**Electives | 6 credit hours**
- HDSC 815: Introduction to Bioinformatics
- HDSC 824: Data Visualization and Acquisition
- HDSC 835: Categorical Data Analysis
- HDSC 880: Data Mining and Analytics
- HDSC 881: Statistical Learning I
- HDSC 882: Statistical Learning II

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

**Tuition & Financial Assistance**

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

**Contact**

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Please request updated information after June 30, 2023.