

GRADUATE CERTIFICATE IN DATA SCIENCE (STEM)

The explosion of data in today's world is rapidly shaping the landscape of our lives. This has led to an urgent need to process massive amount of information and obtain meaningful insights. Data scientists are trained to meet such challenges. Through a structured curriculum that provides foundational knowledge as well as application skills, students in the data science program learn how to confront the most complex problems across both government and private industry using data-driven decisions.

Data science is an emerging field that aims to draw actionable conclusions from data. It uses techniques and theories from the broader areas of statistics, computer science, and mathematics. Its applications are in many fields including business, engineering, natural sciences, social sciences, humanities, and health care.

Data Science, and the associated areas referred to as big data and data analytics, is a rapidly emerging technology field fueled by the dramatic growth in the amount of data involved in most areas of society. The 12-credit graduate certificate in data science program allows students to study fundamental ideas that underlie large data systems and document a knowledge base for work in data intensive jobs. Credit earned in the certificate program can be applied to the master of science in the field of data science degree program.

This is a STEM designated program.

Visit the Data Science Program website (<https://datasci.columbian.gwu.edu/>) for additional information.

ADMISSIONS

Supporting documents not submitted online should be mailed to:

Columbian College of Arts and Sciences, Office of Graduate Studies
The George Washington University
801 22nd Street NW, Phillips Hall 107
Washington DC 20052

For additional information about the admissions process visit the Columbian College of Arts and Sciences Frequently Asked Questions (<https://columbian.gwu.edu/graduate-admissions-faq/>) page.

Contact:

askccas@gwu.edu
202-994-6210 (phone)

Hours: 9:00 am to 5:00 pm, Monday through Friday

REQUIREMENTS

Code	Title	Credits
Required		
Two courses from the following:		
DATS 6101	Introduction to Data Science	
DATS 6102	Data Warehousing	
DATS 6103	Introduction to Data Mining	
Electives		
Two additional DATS courses numbered 6000 or above.		

COMBINED PROGRAMS

Combined programs

- Dual Master of Public Policy and Graduate Certificate in data science (<https://bulletin.gwu.edu/arts-sciences/public-policy-administration/dual-mpp-and-data-science-gc/>)
- Dual Master of Science in the field of statistics and Graduate Certificate in data science (<https://bulletin.gwu.edu/arts-sciences/statistics/dual-ms-gc-data-science/>)
- Dual Master of Science in the field of applied economics and Graduate Certificate in data science (<https://bulletin.gwu.edu/arts-sciences/economics/dual-ms-applied-economics-gc-data-science/>)