Abstract
The Graduate Certificate in Data Science provides a broad introduction to the field—including how to extract and clean data, store and manage large volumes of data, and analyze such data and extract insights from it. The program involves interdisciplinary activities that create data-centered products, applications or programs that help to answer scientific, socio-political or business questions. It requires the ability to integrate data, operate on data at scale, and analyze data to make predictions, find patterns and form and test hypothesis. Practices from a variety of fields are incorporated, including in computer science disciplines such as Machine Learning, Statistics, Databases, and Visualization.

This is a 12-credit graduate program designed to accommodate working professionals while minimally disrupting personal and professional life. Instruction is provided by UMD faculty and experts in the field. The program features face-to-face instructional delivery; classes meet at the UMD College Park campus (https://maps.umd.edu/map/).

Financial Assistance

Contact
Science Academy
University of Maryland
College Park, MD 20742
Telephone: 301.405.9101
Email: scienceacademy@umd.edu
Website: https://scienceacademy.umd.edu/datascience/certificate

Admissions
General Requirements
• Statement of Purpose
• Transcript(s)
• TOEFL/IELTS/PTE (international graduate students) (https://gradschool.umd.edu/admissions/english-language-proficiency-requirements/)

Program-Specific Requirements
• Letters of Recommendation (optional)
• CV/Resume
• Description of Research/Work Experience
• Prior coursework: Prior coursework establishing quantitative ability (i.e. calculus, linear algebra, basic statistics etc.).
• Proficiency in programming languages: Proficiency in programming languages, demonstrated either through prior programming coursework or substantial software development experience.

*Visa Eligibility: This program is not eligible for I-20 or DS-2019 issuance by the University of Maryland.