DATA SCIENCE (Z104)

Graduate Certificate Program
College: Computer, Mathematical, and Natural Sciences

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

See: https://exst.umd.edu/professionals-post-baccalaureates/professional-graduate-programs/science-academy/tuition-fees (https://exst.umd.edu/professionals-post-baccalaureates/professional-graduate-programs/science-academy/tuition-fees/) for information about fees, payment plans, and financial aid.

Contact

Science Academy
College of Computer, Mathematical, and Natural Sciences
3400 A.V. Williams
8223 Paint Branch Drive
University of Maryland
College Park, MD 20742
Telephone: 301.405.9101
Email: scienceacademy@umd.edu

Website: https://cmns.umd.edu/graduate/science-academy/data-science/graduate-certificate (https://cmns.umd.edu/graduate/science-academy/data-science/graduate-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

- Letter of Recommendation (one 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.

Application Deadlines

Type of Applicant	Fall Deadline
Domestic Applicants	
US Citizens and Permanent Residents	May 30, 2025
International Applicants	
F (student) or J (exchange visitor) visas; A, E, G, H, I and L visas and immigrants	N/A

RESOURCES AND LINKS:

Program Website: https://cmns.umd.edu/graduate/science-academy/data-science/graduate-certificate (https://cmns.umd.edu/graduate/science-academy/data-science/graduate-certificate/)
Application Process: gradschool.umd.edu/admissions (http://www.gradschool.umd.edu/admissions/)

REQUIREMENTS

- Data Science, Post-Baccalaureate Certificate (P.B.C.) (https://academiccatalog.umd.edu/graduate/programs/data-science-z104/data-science-pbc/)