DATA SCIENCE (Z104)

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

Abstract
Data Science is an emerging field encapsulating interdisciplinary
activities used to create data-centric products, applications or programs
that address specific scientific, socio-political, or business questions.
Data Science is also commonly referred to as big data analytics,
predictive analytics, advanced analytics, etc. It is making deep inroads in
industry, government, health, and journalism, and many other disciplines.
The Harvard Business Review has called “Data scientist” the “sexiest job
of the 21st century”, and due to the growing need for data science, there
is a significant shortage of trained data scientists.

Offered by the nationally ranked Department of Computer Science
(https://www.cs.umd.edu/), the University of Maryland’s Graduate
Certificate of Professional Studies in Data Science, provides a broad
introduction to the field of Data Science, including how to extract and
clean data, how to store and manage large volumes of data, and how to
analyze such data and extract insights from it. Data Science requires
the ability to integrate data, operate on data at scale, analyze data, make
predictions, find patterns and form and test hypothesis. It incorporates
practices from a variety of fields in computer science, chiefly Machine
Learning, Statistics, Databases, and Visualization.

Financial Assistance
See: http://oes.umd.edu/professional-programs/data-science/data-fees-
aid for information about fees, payment plans, and financial aid.

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Website: http://ter.ps/datascience

Courses: CMSC

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
• Description of Research/Work Experience
• CV/Resume

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

For more admissions information or to apply to the program, please visit
our Graduate School website: www.gradschool.umd.edu/admissions
(https://www.gradschool.umd.edu/admissions/)

Application Deadlines

<table>
<thead>
<tr>
<th>Type of Applicant</th>
<th>Fall Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic Applicants</td>
<td></td>
</tr>
<tr>
<td>US Citizens and Permanent Residents</td>
<td>Fall 2020: 28 July</td>
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<td></td>
<td>Fall 2021: 30 June</td>
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<tr>
<td>International Applicants</td>
<td>N/A</td>
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<td>F (student) or J (exchange visitor)</td>
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<td>visas; A, E, G, H, I and L visas and</td>
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<td>immigrants</td>
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Other Deadlines: Please visit the program website at http://ter.ps/
datascience (http://ter.ps/datascience/)

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