GRADUATE CERTIFICATE IN DATA SCIENCE

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 may be applied to the master of science in the field of data science degree program.

Visit the program website (https://datasci.columbian.gwu.edu) for additional information.

ADMISSIONS

Admission deadlines:
- Fall - July 1
- Spring - October 1

Applications received after the above dates will be considered on a case-by-case basis.

Standardized Test Scores:
GRE is not required.

Test Scores:
- The Test of English as a Foreign Language (TOEFL), the academic International English Language Testing System (IELTS), or the PTE Academic is required of all applicants except those who hold a bachelor’s, master’s, or doctoral degree from a college or university in the United States or from an institution located in a country in which English is the official language, provided English was the language of instruction.

Recommendation:
One (1) letter of recommendation required.

Prior academic records:
Transcripts are required from all colleges and universities attended, whether or not credit was earned, the program was completed, or the credit appears as transfer credit on another transcript. Unofficial transcripts from all colleges and universities attended must be uploaded to your online application. Official transcripts are required only of applicants who are offered admission.

If transcripts are in a language other than English, English language translations must be provided. The English translation alone should be uploaded into your application.

Statement of purpose:
In an essay of 250 – 500 words, state your purpose in undertaking graduate study in your chosen field. Include your academic objectives, research interests, and career plans. Also discuss your related qualifications, including collegiate, professional, and community activities, and any other substantial accomplishments not already mentioned on the application.

International applicants only:
Please note: international students who require a student visa from GW are not eligible to apply for admission to the certificate program.

For more information on the admission process, please visit the Columbian College of Arts and Sciences Frequently Asked Questions (http://columbian.gwu.edu/graduate/admissions/faqs/) page.

Supporting documents not submitted online should be mailed to:
Columbian College of Arts and Sciences - Graduate Admissions Office
The George Washington University
801 22nd Street NW, Phillips Hall 215
Washington DC 20052

Contact for questions:
askccas@gwu.edu – 202-994-6210 (phone) – 202-994-6213 (fax)
8:30 am – 5:30 pm, Monday through Friday

REQUIREMENTS

The following requirements must be fulfilled: 12 credits, including 6 credits in required courses and 6 credits in elective courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td><strong>Required</strong></td>
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<td>Two courses from the following:</td>
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<tr>
<td>DATS 6101</td>
<td>Introduction to Data Science</td>
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<tr>
<td>DATS 6102</td>
<td>Data Warehousing</td>
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DATS 6103  Introduction to Data Mining

**Electives**

Two additional DATS courses numbered 6000 or above.