MASTER OF SCIENCE IN THE FIELD OF STATISTICS

The master of science in statistics program is ideal for students who are preparing for professional positions or doctoral programs in statistics and other quantitative fields.

Thesis and non-thesis options are available, and students may enroll full time or part time. Use of statistical software packages, available in all university computer labs, is required for most courses.

This is a STEM-designated program.

Visit the program website (https://statistics.columbian.gwu.edu/graduate/ms-statistics/) for additional information.

ADMISSIONS

Admission

<table>
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<tr>
<th>Course</th>
<th>Requirement</th>
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APPLICATION DEADLINES

- Fall - April 1 (February 1 for applicants who wish to be considered for fellowships)
- Spring - October 1

Standardized Test Scores:

- GRE General Test (institutional code 5246). Waived for applicants who hold a JD, MD, or PhD.
- 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.

Minimum scores for the program are:

- Academic IELTS: an overall band score of 6.0 with no individual score below 5.0; or
- TOEFL: 550 on paper-based or 80 on Internet-based; or
- PTE Academic: 53

Applicants who do not meet minimum English language requirements may be eligible for our full-time Applied English Language program.

Recommendations

Two (2) recommendations required.

Prerequisite

Course work in multivariate calculus, matrix theory, and at least two undergraduate statistics courses. The MS program rarely admits students with scores below the following:

- Verbal GRE: 15th percentile
- Quantitative GRE: 80th percentile

REQUIREMENTS

General prerequisite: coursework in multivariate calculus, matrix theory, and at least two undergraduate statistics courses.
The following requirements must be fulfilled:

The general requirements stated under Columbian College of Arts and Sciences, Graduate Programs (http://bulletin.gwu.edu/arts-sciences/#degreeregulationstext).

30 credits. For non-thesis option—6 credits in required courses and 24 credits in elective courses. For thesis option—12 credits in required courses, including 6 credits in thesis, and 18 credits in elective courses. Students must have departmental approval to pursue the thesis option.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Required</td>
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<tr>
<td>STAT 6201</td>
<td>Mathematical Statistics I</td>
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<tr>
<td>STAT 6202</td>
<td>Mathematical Statistics II</td>
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<td>For students pursuing the thesis option:</td>
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<tr>
<td>STAT 6999</td>
<td>Thesis Research (taken twice for total of 6 credits)</td>
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<tr>
<td>Electives</td>
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<tr>
<td>For non-thesis option: 24 credits in electives, at least 18 of which must be in STAT courses. For thesis option: 18 credits in electives, at least 12 of which must be in STAT courses.</td>
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<td>Elective courses outside statistics may be taken in related fields, such as economics, mathematics, finance, management, computer science, engineering, public health, and data science.</td>
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**COMBINED PROGRAM**

**Combined program**

- Dual Master of Science in the field of statistics and Graduate Certificate in the field of data science (http://bulletin.gwu.edu/arts-sciences/statistics/dual-ms-gc-data-science/)