

# MASTER OF SCIENCE IN THE FIELD OF STATISTICS (STEM)

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

Visit the Columbian College of Arts and Sciences website for application requirements (<https://columbian.gwu.edu/application-requirements/>).

Supporting documents not submitted online should be mailed to:

Columbian College of Arts and Sciences, Office of Graduate Studies  
The George Washington University  
801 22nd Street NW, Phillips Hall 107  
Washington DC 20052

For additional information about the admissions process visit the Columbian College of Arts and Sciences Frequently Asked Questions (<https://columbian.gwu.edu/graduate-admissions-faq/>) page.

Contact for questions:

askccas@gwu.edu  
202-994-6210 (phone)  
Hours: 9:00 am to 5:00 pm, Monday through Friday

## REQUIREMENTS

This Bulletin covers the degree requirements for students matriculating in the current academic year. Students who matriculated before the current year can find their requirements in the relevant archived Bulletin (<https://bulletin.gwu.edu/archives/>).

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 (<https://bulletin.gwu.edu/arts-sciences/#regulationsgraduatetext>).

Non-thesis option—30 credits, including 6 credits in required courses and 24 credits in elective courses.

Thesis option—30 credits, including 12 credits in required core courses, which includes 6 credits in thesis, and 18 credits in elective courses. Students must have departmental approval to pursue the thesis option.

Code	Title	Credits
<b>Required core</b>		
STAT 6201	Mathematical Statistics I	
STAT 6202	Mathematical Statistics II	

<b>For the thesis option</b>		
STAT 6999	Thesis Research (taken twice for total of 6 credits)	

<b>Electives</b>		
Non-thesis option: 24 credits in elective courses, at least 18 of which must be in STAT courses.		

Thesis option: 18 credits in elective courses, at least 12 of which must be in STAT courses.		
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Elective courses outside Statistics can be taken in related fields, such as economics, mathematics, finance, management, computer science, engineering, public health, and data science.

## COMBINED PROGRAM

### Combined program

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