



EPIDEMIOLOGY AND BIostatISTICS, MS

Global and Community Health
chhs.gmu.edu/gch

The MS in epidemiology and biostatistics prepares participants to apply epidemiological and statistical principles to quantitative analysis of health care issues. It is aimed at health scientists and professionals in government agencies, such as the National Institutes of Health, pharmaceutical companies, research hospitals, public health agencies, and other medical research organizations with the need to design experiments for medical and health services research. Graduates are expected to analyze and interpret increasingly complex, non-experimental health care data. The degree is taught jointly by faculty from the Department of Statistics in the Volgenau School of Information Technology and Engineering and the Department of Global and Community Health in the College of Health and Human Services.

Admission Requirements

Applicants must hold a baccalaureate degree in a discipline related to health science or statistics, with a GPA of 3.00 in the last 60 credits. Courses in calculus at the undergraduate level through multivariate calculus equivalent to MATH 113, 114, and 213 with a grade of B or better are required for admission to the program. Application is made through CHHS. Admission decisions are made by a joint faculty committee from the Department of Statistics and the Department of Global and Community Health.

Application Deadline

Application deadlines for the MS in epidemiology and biostatistics are April 1 for the fall semester and November 1 for spring. Application materials are available at <http://admissions.gmu.edu/grad>.

The Department of Global and Community Health hosts information sessions on a regular basis for those interested in our academic programs. Visit the college website for details.

Contact Information

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Program of Study

Students must complete 36 credits of graduate course work. A graduate course in which a grade of C or below is earned may be repeated only once. Graduate students may repeat no more than two courses in their stated program of study. Students must achieve a 3.00 GPA to graduate.

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| Required Core Courses | 15 |
| GCH 712 Introduction to Epidemiology | 3 |
| GCH 722 Infectious Disease Epidemiology | 3 |
| GCH 732 Chronic Disease Epidemiology | 3 |
| STAT 554 Applied Statistics | 3 |
| STAT 660 Biostatistical Methods | 3 |
| Epidemiology Requirements | 6 |
| <i>Select a minimum of two courses from the following:</i> | |
| GCH 551 Research Methods in Rehabilitation Science | 3 |
| GCH 605 Social Epidemiology | 3 |
| GCH 680 International Research Ethics and Methods | 3 |
| GCH 726 Advanced Seminar in Epidemiology | 3 |
| GCH 752 Nutritional Epidemiology | 3 |
| Statistics Requirements | 9 |
| <i>Select a minimum of three courses from the following:</i> | |
| STAT 544 Applied Probability | 3 |
| STAT 574 Survey Sampling | 3 |
| STAT 652 Statistical Inference | 3 |
| STAT 655 Analysis of Variance | 3 |
| STAT 656 Regression Analysis | 3 |
| STAT 657 Nonparametric Statistics | 3 |
| STAT 662 Multivariate Statistical Methods | 3 |
| STAT 665 Categorical Data Analysis | 3 |
| STAT 668 Survival Analysis | 3 |
| STAT 673 Statistical Methods for Longitudinal Data Analysis | 3 |
| Electives | 6 |
| <i>Choose two electives (6 credits) in consultation with the academic advisor. Students may choose to work with their advisor to conduct an epidemiology/biostatistics research project.</i> | |
| TOTAL | 36 |

The above information is based on the 2009–2010 University Catalog and is subject to change without notice or obligation. It is not to be regarded as a contract.