

Statistics (PhD)

Graduate degree candidates are expected to develop broad competence in the discipline of Statistics as a whole as well as expertise in their chosen area of concentration. The PhD in Statistics focuses on training students in the theory and practice of modern statistical science and computation so that they are prepared to understand modern research and make novel contributions to the field. Major emphasis is placed on training in application-driven methodological research, probability modeling, and statistical computation. Throughout the program, students are exposed to central ideas in Bayesian methods, classical and modern statistical inference, and statistical machine learning.

Graduate Handbook

Graduate handbook information is updated and maintained by each program. Graduate handbooks are available within each program's office and [online](#). Please contact the program with concerns or questions.

Admission

Prior to admission to the program, the student should demonstrate a background knowledge of mathematics and statistics equivalent to that acquired in upper-division courses in probability and statistics. Deficiencies may be made up by taking courses suggested by the graduate advisor. In most cases, these courses may not be counted toward the degree.

Total Hours Required: 47

Requirements

The Doctor of Philosophy in Statistics requires a minimum of 47 credit hours of coursework; however, it is typical for a student to complete the program in five years with over 90 credit hours of coursework, including dissertation hours. A doctoral student in statistics must complete a core set of courses in statistical theory and methods. At the end of the first year, students must complete a preliminary written examination covering the main concepts in these core courses. At the end of the second year or during the third year, students must successfully present a plan of study and demonstrate research proficiency in an oral examination to qualify for candidacy. Students are expected to write and defend their dissertation within two years of admission to candidacy. After advancing to candidacy, students are expected to write and defend a dissertation, completing program requirements within a total of five years.

Code	Title	Hours
All students must also follow the following requirements and policies:		
Graduate Natural Sciences Requirements		
Graduate University Requirements		