The Department of Statistics offers a rich variety of courses and seminars in almost all branches of statistical theory and applications. The Ph.D. program provides excellent training in the modern theory, methods and applications of statistics and prepares students to become independent researchers. Graduates are prepared for positions in academia, business, or government. The median time to degree is five years.

The Ph.D. program also has an option in biostatistics with slightly different course requirements, but students can freely switch between options after enrollment. The admissions process pools together all applicants to the Ph.D. programs regardless of option, so there is no need to apply to both programs.

The department strives to support students in the Ph.D. program as teaching, research, or project assistants.

The Statistics Department provides extensive computing facilities, both hardware and software, to support instruction and research. Several computers and advanced graphic workstations are available for use in advanced courses enabling students to pursue the latest research directions in statistical computing and graphics. Common statistical packages and libraries are available on a variety of machines.

The department may be consulted for specific career information. See the department website (http://www.stat.wisc.edu/) for application materials and deadlines.

Students apply to the Ph.D. in Statistics through one of the named options:

- Biostatistics (http://guide.wisc.edu/graduate/statistics/statistics-phd/statistics-biostatistics-phd/)
- Statistics (http://guide.wisc.edu/graduate/statistics/statistics-phd/statistics-statistics-phd/)

Review the Graduate School minimum academic progress and degree requirements (http://guide.wisc.edu/graduate/#policiesandrequirementstext), in addition to the program requirements listed below.

Half of degree coursework (26 credits out of 51 total credits) must be completed graduate-level coursework; courses with the Graduate Level Coursework attribute are identified and searchable in the university’s Course Guide (http://my.wisc.edu/CourseGuideRedirect/BrowseByTitle (http://my.wisc.edu/CourseGuideRedirect/BrowseByTitle/)).

- Overall Graduate GPA Requirement: 3.00 GPA required.
- Other Grade Requirements: A grade of B or better must be received in any course used to fulfill the required and elective course requirements.
- Assessments and Examinations: Students must pass the Ph.D. qualifying examination, an oral preliminary examination on a topic selected with the approval of the student’s advisor, and a dissertation defense.
- Language Requirements: No language requirements.

See Named Options for policy information.

Select a Named Option (https://guide.wisc.edu/graduate/statistics/statistics-phd/) for courses required.
• STATISTICS: BIOSTATISTICS, PH.D. (HTTP://GUIDE.WISC.EDU/GRADUATE/STATISTICS/STATISTICS-PHD/STATISTICS-BIOSTATISTICS-PHD/)
• STATISTICS: STATISTICS, PH.D. (HTTP://GUIDE.WISC.EDU/GRADUATE/STATISTICS/STATISTICS-PHD/STATISTICS-STATISTICS-PHD/)

POLICIES

Students should refer to one of the named options for policy information:

• Biostatistics (http://guide.wisc.edu/graduate/statistics/statistics-phd/statistics-biostatistics-phd/)
• Statistics (http://guide.wisc.edu/graduate/statistics/statistics-phd/statistics-statistics-phd/)

PROFESSIONAL DEVELOPMENT

GRADUATE SCHOOL RESOURCES

Take advantage of the Graduate School’s professional development resources (https://grad.wisc.edu/pd/) to build skills, thrive academically, and launch your career.

LEARNING OUTCOMES

1. Articulates research problems, potentials, and limits with respect to the theories, methodologies, and/or applications of statistics.
2. Formulates ideas, concepts, designs, and methods beyond the current boundaries of knowledge within statistics.
3. Creates research that makes a substantive contribution to theoretical and/or applied statistics.
4. Demonstrates breadth in the theories, methodologies, and applications of statistics.
5. Advances contributions of statistics to society.
6. Communicates complex ideas in a clear and understandable manner.
7. Fosters ethical and professional conduct.

PEOPLE

Faculty:

Cecile Ane (https://stat.wisc.edu/staff/ane-cecile/), Professor
Joshua Cape (https://stat.wisc.edu/staff/cape-joshua/), Assistant Professor
Richard Chappell (https://stat.wisc.edu/staff/chappell-rick/), Professor
Peter Chien (https://stat.wisc.edu/staff/chien-peter/), Professor
Jessi Cisewski-Kehe (https://stat.wisc.edu/staff/cisewski-kehe-jessi/), Assistant Professor

Deshpande, Sameer (https://skdeshpande91.github.io/), Assistant Professor
Nicolas Garcia Trillos (https://stat.wisc.edu/staff/trillos-nicolas-garcia/), Assistant Professor
Yinqiu He (https://stat.wisc.edu/staff/he-yinqiu/), Assistant Professor
Hyunseung Kang (https://stat.wisc.edu/staff/kang-hyunseung/), Associate Professor
Sunduz Keles (https://stat.wisc.edu/staff/keles-sunduz/), Professor
Bret Larget (https://stat.wisc.edu/staff/larget-bret/), Professor
Keith Levin (https://stat.wisc.edu/staff/levin-keith/), Assistant Professor
Wei-Yin Loh (https://stat.wisc.edu/staff/loh-wei-yin/), Professor
Michael Newton (https://stat.wisc.edu/staff/newton-michael/), Professor
Vivak Patel (https://stat.wisc.edu/staff/patel-vivak/), Assistant Professor
Alejandra Quintos (https://stat.wisc.edu/staff/quintos-alejandra/), Assistant Professor
Garvesh Raskutti (https://stat.wisc.edu/staff/raskutti-garvesh/), Associate Professor
Karl Rohe (https://stat.wisc.edu/staff/rohe-karl/), Professor
Kris Sankaran (https://stat.wisc.edu/staff/sankaran-kris/), Assistant Professor
Jun Shao (https://stat.wisc.edu/staff/shao-jun/), Professor
Miaoyan Wang (https://stat.wisc.edu/staff/wang-miaoyan/), Assistant Professor
Yahzen Wang (https://stat.wisc.edu/staff/wang-yazhen/) (chair), Professor
Brian Yandell (https://stat.wisc.edu/staff/yandell-brian/), Professor
Chunming Zhang (https://stat.wisc.edu/staff/zhang-chunming/), Professor
Yiqiao Zhong (https://stat.wisc.edu/staff/zhong-yiqiao/), Assistant Professor
Jun Zhu (https://stat.wisc.edu/staff/zhu-jun/), Professor

Yichao Zhong (https://stat.wisc.edu/staff/zhong-yichao/)