

STATISTICS, M.S.

The M.S. degree program in statistics trains the candidate to become a practicing statistician with a number of options including:

- Statistics: Applied Statistics, M.S. (<http://guide.wisc.edu/graduate/statistics/statistics-ms/statistics-applied-statistics-ms/>)
- Statistics: Biostatistics, M.S. (<http://guide.wisc.edu/graduate/statistics/statistics-ms/statistics-biostatistics-ms/>)
- Statistics: Statistics and Data Science, M.S. (<http://guide.wisc.edu/graduate/statistics/statistics-ms/statistics-statistics-data-science-ms/>)
- Statistics: Statistics, M.S. (<http://guide.wisc.edu/graduate/statistics/statistics-ms/statistics-statistics-ms/>)

In addition, the department is closely involved with the School of Medicine and Public Health Department of Biostatistics and Medical Informatics (<https://guide.wisc.edu/graduate/biostatistics-medical-informatics/>) and a joint MS Data Science (<http://guide.wisc.edu/graduate/statistics/data-science-ms/>) offered by both the Department of Statistics and Department of Computer Sciences.

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. Please see each program option for specific information regarding application materials, deadlines, and program requirements.

ADMISSIONS

Students apply to the Master of Science in Statistics through one of the named options:

- Applied Statistics (<http://guide.wisc.edu/graduate/statistics/statistics-ms/statistics-applied-statistics-ms/>)
- Biostatistics (<http://guide.wisc.edu/graduate/statistics/statistics-ms/statistics-biostatistics-ms/>)
- Statistics and Data Science
- Statistics (<http://guide.wisc.edu/graduate/statistics/statistics-ms/statistics-statistics-ms/>)

FUNDING

GRADUATE SCHOOL RESOURCES

Resources to help you afford graduate study might include assistantships, fellowships, traineeships, and financial aid. Further funding information (<https://grad.wisc.edu/funding/>) is available from the Graduate School. Be sure to check with your program for individual policies and restrictions related to funding.

PROGRAM RESOURCES

Each option within Statistics has different funding policies and opportunities for students. Please see each option for details.

- Statistics: Applied Statistics, M.S. (<http://guide.wisc.edu/graduate/statistics/statistics-ms/statistics-applied-statistics-ms/>)
- Statistics: Biostatistics, M.S. (<http://guide.wisc.edu/graduate/statistics/statistics-ms/statistics-biostatistics-ms/>)
- Statistics: Statistics and Data Science, M.S. (<http://guide.wisc.edu/graduate/statistics/statistics-ms/statistics-data-science-ms/>)
- Statistics: Statistics, M.S. (<http://guide.wisc.edu/graduate/statistics/statistics-ms/statistics-statistics-ms/>)

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

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

MAJOR REQUIREMENTS CURRICULAR REQUIREMENTS

Requirement Detail	
Minimum Requirement	30 credits
Minimum Residence Credit Requirement	16 credits
Minimum Graduate Coursework Requirement	15 credits (50% of 30 credits) must be graduate-level coursework. Details can be found in the Graduate School's policy: https://policy.wisc.edu/library/UW-1244 (https://policy.wisc.edu/library/UW-1244/)
Overall Graduate GPA Requirement	3.00 GPA required. This program follows the Graduate School's policy: https://policy.wisc.edu/library/UW-1203 (https://policy.wisc.edu/library/UW-1203/).
Other Grade Requirements	See Named Options for grade requirements.
Assessments and Examinations	See Named Options for policy information.
Language Requirements	No language requirements.

REQUIRED COURSES

Select a Named Option (<https://guide.wisc.edu/graduate/statistics/statistics-ms/#NamedOptions>) for courses required.

NAMED OPTIONS

A named option is a formally documented sub-major within an academic major program. Named options appear on the transcript with degree

conferral. Students pursuing the Master of Science in Statistics must select one of the following named options:

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- STATISTICS: APPLIED STATISTICS, M.S. ([HTTP://GUIDE.WISC.EDU/GRADUATE/STATISTICS/STATISTICS-MS/STATISTICS-APPLIED-STATISTICS-MS/](http://guide.wisc.edu/graduate/statistics/statistics-ms/statistics-applied-statistics-ms/))
- STATISTICS: BIOSTATISTICS, M.S. ([HTTP://GUIDE.WISC.EDU/GRADUATE/STATISTICS/STATISTICS-MS/STATISTICS-BIOSTATISTICS-MS/](http://guide.wisc.edu/graduate/statistics/statistics-ms/statistics-biostatistics-ms/))
- STATISTICS: STATISTICS AND DATA SCIENCE, M.S. ([HTTP://GUIDE.WISC.EDU/GRADUATE/STATISTICS/STATISTICS-MS/STATISTICS-STATISTICS-DATA-SCIENCE-MS/](http://guide.wisc.edu/graduate/statistics/statistics-ms/statistics-statistics-data-science-ms/))
- STATISTICS: STATISTICS, M.S. ([HTTP://GUIDE.WISC.EDU/GRADUATE/STATISTICS/STATISTICS-MS/STATISTICS-STATISTICS-MS/](http://guide.wisc.edu/graduate/statistics/statistics-ms/statistics-statistics-ms/))

POLICIES

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

- Applied Statistics (<http://guide.wisc.edu/graduate/statistics/statistics-ms/statistics-applied-statistics-ms/>)
- Biostatistics (<http://guide.wisc.edu/graduate/statistics/statistics-ms/statistics-biostatistics-ms/>)
- Statistics and Data Science
- Statistics (<http://guide.wisc.edu/graduate/statistics/statistics-ms/statistics-statistics-ms/>)

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. Demonstrates understanding of statistical theories, methodologies, and applications as tools in scientific inquiries.
2. Selects and utilizes the most appropriate statistical methodologies and practices.
3. Synthesizes information pertaining to questions in empirical studies.
4. Communicates data concepts and analysis results clearly.
5. Recognizes and applies principles of 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