STATISTICS: STATISTICS, PH.D.

This is a named option within the Statistics Ph.D. (http://guide.wisc.edu/graduate/statistics/statistics-phd/) Find information about the traditional Statistics Ph.D. program requirements and policies here.

ADMISSIONS

Please consult the table below for key information about this degree program’s admissions requirements. The program may have more detailed admissions requirements, which can be found below the table or on the program’s website.

Graduate admissions is a two-step process between academic programs and the Graduate School. Applicants must meet the minimum requirements (https://grad.wisc.edu/apply/requirements/) of the Graduate School as well as the program(s). Once you have researched the graduate program(s) you are interested in, apply online (https://grad.wisc.edu/apply/).

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Deadline</td>
<td>December 1</td>
</tr>
<tr>
<td>Spring Deadline</td>
<td>The program does not admit in the spring.</td>
</tr>
<tr>
<td>Summer Deadline</td>
<td>The program does not admit in the summer.</td>
</tr>
<tr>
<td>GRE (Graduate Record</td>
<td>Required. *</td>
</tr>
<tr>
<td>Examinations)</td>
<td></td>
</tr>
<tr>
<td>English Proficiency Test</td>
<td>Every applicant whose native language is not</td>
</tr>
<tr>
<td></td>
<td>English or whose undergraduate instruction</td>
</tr>
<tr>
<td></td>
<td>was not in English must provide an English</td>
</tr>
<tr>
<td></td>
<td>proficiency test score and meet the Graduate</td>
</tr>
<tr>
<td></td>
<td>School minimum requirements (<a href="https://grad.wisc.edu/apply/requirements/#english-proficiency).">https://grad.wisc.edu/apply/requirements/#english-proficiency).</a></td>
</tr>
<tr>
<td>Other Test(s) (e.g., GMAT,</td>
<td>n/a</td>
</tr>
<tr>
<td>MCAT)</td>
<td></td>
</tr>
<tr>
<td>Letters of Recommendation</td>
<td>3</td>
</tr>
<tr>
<td>Required</td>
<td></td>
</tr>
</tbody>
</table>

* Due to COVID-19, there have been challenges for students attempting to take the GRE. For students applying for Fall 2021, the GRE requirement is optional. Regardless of whether GRE scores are submitted, all applications will be held in equal regard.

Students holding a bachelor’s degree with a natural science, social science, or engineering major and strong mathematical background are encouraged to apply for admission to the graduate program in statistics. Students are advised to undertake graduate work in statistics only if their undergraduate grades in mathematics were uniformly high.

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.

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

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

NAMED OPTION REQUIREMENTS

MODE OF INSTRUCTION

<table>
<thead>
<tr>
<th>Mode of Instruction Definitions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accelerated: Accelerated programs are offered at a fast pace that condenses the time to completion. Students are able to complete a program with minimal disruptions to careers and other commitments.</td>
</tr>
<tr>
<td>Evening/Weekend: Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.</td>
</tr>
<tr>
<td>Face-to-Face: Courses typically meet during weekdays on the UW-Madison Campus.</td>
</tr>
<tr>
<td>Hybrid: These programs combine face-to-face and online learning formats. Contact the program for more specific information.</td>
</tr>
<tr>
<td>Online: These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.</td>
</tr>
</tbody>
</table>

CURRICULAR REQUIREMENTS

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Credit Requirement</td>
<td>51 credits</td>
</tr>
<tr>
<td>Minimum Residence Credit Requirement</td>
<td>32 credits</td>
</tr>
</tbody>
</table>
### REQUIRED COURSES

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT/MATH 709</td>
<td>Mathematical Statistics</td>
<td>4</td>
</tr>
<tr>
<td>STAT/MATH 710</td>
<td>Mathematical Statistics</td>
<td>4</td>
</tr>
<tr>
<td>STAT/MATH 733</td>
<td>Theory of Probability I</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 771</td>
<td>Statistical Computing</td>
<td></td>
</tr>
<tr>
<td>STAT 849</td>
<td>Theory and Application of Regression and Analysis of Variance I</td>
<td>3</td>
</tr>
<tr>
<td>STAT 850</td>
<td>Theory and Application of Regression and Analysis of Variance II</td>
<td>3</td>
</tr>
<tr>
<td>STAT 998</td>
<td>Statistical Consulting</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Courses:**

Eighteen or more elective credits from Statistics Courses, including:

- STAT/B M I 641 Statistical Methods for Clinical Trials 3 credits
- STAT/B M I 642 Statistical Methods for Epidemiology 3 credits

### GRADUATE SCHOOL POLICIES

**PRIOR COURSEWORK**

With program approval, students are allowed to count no more than 9 credits of graduate coursework from other institutions toward the graduate degree credit and graduate coursework (50%) requirements. Coursework earned five or more years prior to admission to a doctoral degree is not allowed to satisfy requirements.

**UW–Madison Undergraduate**

With program approval, up to 6 statistics credits from a UW–Madison undergraduate degree at the 600 level or above are allowed to count toward minimum graduate degree credits. Coursework earned five or more years prior to admission to a doctoral degree is not allowed to satisfy requirements.

**UW–Madison University Special**

With program approval, up to 15 statistics credits completed at UW–Madison while a University Special student at the 300 level or above are allowed to count toward minimum graduate degree and graduate residence credit requirements. Of those credits, those at the 700 level or above may also count toward the minimum graduate coursework (50%) requirement. Coursework earned five or more years prior to admission to a doctoral degree is not allowed to satisfy requirements.

### PROBATION

Three consecutive reviews in which a student fails to meet the minimum criteria for satisfactory progress will result in the student being dropped from the program. Contact the program for more information.

### ADVISOR / COMMITTEE

Students are required to meet with their advisor near the beginning of each semester to discuss course selection and progress.
CREDITS PER TERM ALLOWED
15 credits

TIME CONSTRAINTS
Students must pass the Ph.D. qualifying examination within six
semesters from the first fall semester of registration as a graduate
student in the department. Students who complete a master’s in the
department and then are admitted to the Ph.D. program must pass the
Ph.D. qualifying examination within four semesters after entering the
Ph.D. program.

GRIEVANCES AND APPEALS
These resources may be helpful in addressing your concerns:

• Bias or Hate Reporting (https://doso.students.wisc.edu/bias-or-hate-
reporting/)
• Graduate Assistantship Policies and Procedures (https://hr.wisc.edu/
policies/gapp/#grievance-procedure)
• Hostile and Intimidating Behavior Policies and Procedures (https://
hr.wisc.edu/hib/)
  • Office of the Provost for Faculty and Staff Affairs (https://
facstaff.provost.wisc.edu/)
• Dean of Students Office (https://doso.students.wisc.edu/) (for all
students to seek grievance assistance and support)
• Employee Assistance (http://www.eao.wisc.edu/) (for personal
  counseling and workplace consultation around communication and
  conflict involving graduate assistants and other employees, post-
doctoral students, faculty and staff)
• Employee Disability Resource Office (https://emp-
yoediabilities.wisc.edu/) (for qualified employees or
  applicants with disabilities to have equal employment opportunities)
• Graduate School (https://grad.wisc.edu/) (for informal advice at any
  level of review and for official appeals of program/departmental or
  school/college grievance decisions)
• Office of Compliance (https://compliance.wisc.edu/) (for class
  harassment and discrimination, including sexual harassment and
  sexual violence)
• Office of Student Conduct and Community Standards (https://
conduct.students.wisc.edu/) (for conflicts involving students)
• Ombuds Office for Faculty and Staff (http://www.ombuds.wisc.edu/
  ) (for employed graduate students and post-docs, as well as faculty
  and staff)
• Title IX (https://compliance.wisc.edu/titleix/) (for concerns about
discrimination)

Students should contact the department chair or program director with
questions about grievances. They may also contact the L&S Academic
Divisional Associate Deans, the L&S Associate Dean for Teaching and
Learning Administration, or the L&S Director of Human Resources.

OTHER
Students pursuing the general statistics and biostatistics options are
considered for department financial support and may seek a dual degree
if desired.

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.

PEOPLE

Faculty:
Cecile Ane (https://stat.wisc.edu/staff/ane-cecile/), 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-
jesss/), Assistant Professor
Deshpande, Sameer (https://skdeshpande91.github.io/), Assistant
Professor
Nicolas Garcia Trillos (https://stat.wisc.edu/staff/trillos-nicolas-
garcia/), Assistant Professor
Hyunseung Kang (https://stat.wisc.edu/staff/kang-
hyunseung/), Assistant 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
Sebastian Raschka (https://stat.wisc.edu/staff/raschka-
sebastian/), Assistant Professor
Garvesh Raskutti (https://stat.wisc.edu/staff/raskutti-
garvesh/), Associate Professor
Karl Rohe (https://stat.wisc.edu/staff/rohe-karl/), Associate 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
Zhengjung Zhang (https://stat.wisc.edu/staff/zhang-zhengjun/), Professor
Jun Zhu (https://stat.wisc.edu/staff/zhu-jun/), Professor