Statistics, PhD

for the degree of Doctor of Philosophy in Statistics

Department Chair: Bo Li
Associate Department Chair: Jeff Douglas
PhD Program Director: Xiaofeng Shao
MS Program Director: Darren Glosemeyer

MS advisors: Tori Ellison, Hyoeun Lee
Graduate Contact: Aaron Thompson

Department website: http://www.stat.illinois.edu/
College website: https://las.illinois.edu/
Overview of graduate college admissions & requirements: Graduate Admissions (https://grad.illinois.edu/admissions/apply/)
Department contact: Aaron Thompson
Department office: 101 Illini Hall, 725 South Wright Street, Champaign, IL 61820
Phone: (217) 333-2167
Email: stat-office@illinois.edu

Specific program info here

Graduate Degree Programs in Statistics

Statistics, MS (http://catalog.illinois.edu/graduate/las/statistics-ms/)
Concentrations:
- Analytics (http://catalog.illinois.edu/graduate/las/statistics-ms/analytics/)
- Applied (http://catalog.illinois.edu/graduate/las/statistics-ms/applied/)
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Concentration:
- Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)
- Graduate Minor in Statistics (http://catalog.illinois.edu/graduate/las/minors/statistics/)

Admission

Graduate College admission requirements apply. Students are expected to have a strong undergraduate mathematics background, but need not have an undergraduate statistics or mathematics degree. Students may be admitted with deficiencies, which are to be removed during the first year of graduate work. A minimum Test of English as a Foreign Language (TOEFL) score of 590 for the paper-based test or 243 for the computer-based test is required for students whose native language is not English. The Graduate Record Examination (GRE) is required. The department offers Ph.D. admissions for the fall only.

Graduate Teaching Experience

Although teaching is not a general Graduate College requirement, experience in teaching is considered an important part of the graduate experience in the Ph.D. program.

Financial Aid

Financial aid is available primarily in the form of teaching assistantships, research assistantships, and fellowships. For further information write to the Graduate Admissions Committee, Department of Statistics.

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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 424</td>
<td>Analysis of Variance</td>
<td>4</td>
</tr>
<tr>
<td>STAT 425</td>
<td>Statistical Modeling I</td>
<td>4</td>
</tr>
<tr>
<td>STAT 426</td>
<td>Statistical Modeling II</td>
<td>4</td>
</tr>
<tr>
<td>STAT 510</td>
<td>Mathematical Statistics</td>
<td>4</td>
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</tbody>
</table>

Theory Core Courses

- STAT 511 Advanced Mathematical Statistics 4
- STAT 553 Probability and Measure I 4
- STAT 575 Large Sample Theory 4

Select one Practicum Course:
- STAT 427 Statistical Consulting 4
- STAT 593 Internship 4
- STAT 595 Preparing Future Faculty 4

Select one Computational Theory and Methods Course:
- STAT 428 Statistical Computing 4
- STAT 525 Computational Statistics 4
- STAT 530 Bioinformatics 4
- STAT 542 Statistical Learning 4

Select one of the Stochastic Processes and Time Series Courses:
- STAT 429 Time Series Analysis 4
- STAT 433 Stochastic Processes (Stochastic Processes) 4
- STAT 554 Probability and Measure II 4
- STAT 555 Applied Stochastic Processes 4

Select at least 3 elective courses from a list within the department. At least two courses must be at the 500-level.

Thesis and Individual Study Courses

- STAT 590 Individual Study and Research 0 to 8
- STAT 599 Thesis Research (0 min applied toward degree) 0

Total Hours 64

Other Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Masters Degree Required for Admission to PhD?</td>
<td>No, but Masters level requirements must be met (32 additional hours min)</td>
</tr>
<tr>
<td>Qualifying Exam Required</td>
<td>Yes</td>
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<tr>
<td>Preliminary Exam Required</td>
<td>Yes</td>
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<tr>
<td>Final Exam/Dissertation Defense Required</td>
<td>Yes</td>
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<td>Dissertation Deposit Required</td>
<td>Yes</td>
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<td>Minimum GPA:</td>
<td>2.75</td>
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</table>

Information listed in this catalog is current as of 07/2021
For additional details and requirements refer to the department's Graduate Programs (http://www.stat.illinois.edu/students/graduates.shtml/) and the Graduate College Handbook (http://www.grad.illinois.edu/gradhandbook/).