STATISTICS

http://www.stat.illinois.edu

Chair of the Department: Douglas G. Simpson
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Major: Statistics
Degrees Offered: M.S., Ph.D.
Graduate Concentrations: Analytics (M.S. only), Applied Statistics (M.S. only)

Medical Scholars Program: Doctor of Philosophy (Ph.D.) in Statistics and Doctor of Medicine (M.D.) through the Medical Scholars Program (https://www.med.illinois.edu/mdphd)

Graduate Degree Programs
The Department of Statistics offers graduate study leading to the Master of Science in Statistics, the Master of Science in Statistics with specialization in various areas of application, and the Doctor of Philosophy in 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.

Medical Scholars Program
The Medical Scholars Program permits highly qualified students to integrate the study of medicine with study for a graduate degree in a second discipline, including Statistics. Students may apply to the Medical Scholars Program prior to beginning graduate school or while in the graduate program. Applicants to the Medical Scholars Program must meet the admissions standards for and be accepted into both the doctoral graduate program and the College of Medicine. Students in the dual degree program must meet the specific requirements for both the medical and graduate degrees. On average, students take eight years to complete both degrees. Further information on this program is available by contacting the Medical Scholars Program, 125 Medical Sciences Building, (217) 333-8146 or at www.med.illinois.edu/msp.

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 this 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.

- Master of Science in Statistics (http://catalog.illinois.edu/graduate/graduate-majors/statistics/ms)
- Master of Science in Statistics, Analytics Concentration (http://catalog.illinois.edu/graduate/graduate-majors/statistics/ms-analytics-concentration)
- Master of Science in Statistics, Applied Statistics Concentration (http://catalog.illinois.edu/graduate/graduate-majors/statistics/ms-applied-statistics-concentration)

Doctor of Philosophy in Statistics

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>STAT 424</td>
<td>Analysis of Variance</td>
<td>4</td>
</tr>
<tr>
<td>STAT 425</td>
<td>Applied Regression and Design</td>
<td>4</td>
</tr>
<tr>
<td>STAT 426</td>
<td>Sampling and Categorical Data</td>
<td>4</td>
</tr>
<tr>
<td>STAT 427</td>
<td>Statistical Consulting</td>
<td>4</td>
</tr>
<tr>
<td>STAT 428</td>
<td>Statistical Computing</td>
<td>4</td>
</tr>
<tr>
<td>STAT 429</td>
<td>Time Series Analysis</td>
<td>4</td>
</tr>
<tr>
<td>STAT 510</td>
<td>Mathematical Statistics I</td>
<td>4</td>
</tr>
<tr>
<td>STAT 511</td>
<td>Mathematical Statistics II</td>
<td>4</td>
</tr>
<tr>
<td>STAT 525</td>
<td>Computational Statistics</td>
<td>4</td>
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Select one of the following pairs: 8

- STAT 553 Probability and Measure I & STAT 554 Probability and Measure II
- STAT 551 Theory of Probability I & STAT 552 Theory of Probability II

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<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>STAT 571</td>
<td>Multivariate Analysis</td>
<td>4</td>
</tr>
<tr>
<td>STAT 575/</td>
<td>Large Sample Theory</td>
<td>4</td>
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<tr>
<td>ECON 578</td>
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<tr>
<td>STAT 578</td>
<td>Topics in Statistics</td>
<td>4</td>
</tr>
<tr>
<td>STAT 599</td>
<td>Thesis Research (0 min applied toward degree)</td>
<td>0</td>
</tr>
</tbody>
</table>

Total Hours 64

Other Requirements
Other requirements may overlap

- Masters Degree Required for Admission to PhD: No, but Masters level requirements must be met (32 additional hours min)
- Qualifying Exam Required: Yes
- Preliminary Exam Required: Yes
- Final Exam/Dissertation Defense Required: Yes
- Dissertation Deposit Required: Yes
- Minimum GPA: 2.75

1 For additional details and requirements refer to the department's Graduate Programs (http://www.stat.illinois.edu/degrees/degrees.shtml) and the Graduate College Handbook (http://www.grad.illinois.edu/gradhandbook).

Information listed in this catalog is current as of 04/2016