Statistics: Applied, MS

for the degree of Master of Science in Statistics, Applied Statistics Concentration

Department Chair: Bo Li
Associate Department Chair: Jeff Douglas
PhD Program Director: Xiaofeng Shao
MS Program Director: Darren Glosemeyer
MS advisors: Karle Flanagan, Christopher Kinson
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 office: 101 Illini Hall, 725 South Wright Street, Champaign, IL 61820
phone: (217) 333-2167
e-mail: stat-office@illinois.edu

The Department of Statistics offers the Master of Science in Statistics with specialization in a variety of areas of application. The degree program consists of a core of statistics courses covering statistical theory, linear models, and statistical consulting, and further coursework in the field of application and in statistics. The program offers an additional degree for students earning an advanced degree in the area of application.

To be eligible for this program, students must be pursuing an advanced degree in a department other than Statistics at the Urbana-Champaign campus. Students interested in economic statistics should apply for the applied concentration. Full statements of degree requirements are available from the head of the unit offering a specialization or from the Graduate Advisor of the Department of Statistics.

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 (p. 1)]
Statistics, PhD (http://catalog.illinois.edu/graduate/las/statistics-phd)
  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>
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</thead>
<tbody>
<tr>
<td>STAT 410/</td>
<td>Statistics and Probability II (or equivalent proficiency)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 464</td>
<td></td>
<td></td>
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<tr>
<td>STAT 425</td>
<td>Applied Regression and Design</td>
<td>4</td>
</tr>
<tr>
<td>or STAT 424</td>
<td>Analysis of Variance</td>
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<tr>
<td>or STAT 424</td>
<td>Analysis of Variance</td>
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</tr>
<tr>
<td>STAT 427</td>
<td>Statistical Consulting (or experience in applied statistics)</td>
<td>0-4</td>
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<tr>
<td>or STAT 59</td>
<td>STAT Internship</td>
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<tr>
<td>STAT 424</td>
<td>Analysis of Variance</td>
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<tr>
<td>STAT 425</td>
<td>Applied Regression and Design</td>
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<tr>
<td>STAT 426</td>
<td>Sampling and Categorical Data</td>
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<td>STAT 428</td>
<td>Statistical Computing</td>
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<td>STAT 429</td>
<td>Time Series Analysis</td>
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<tr>
<td>STAT 525</td>
<td>Computational Statistics</td>
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<tr>
<td>STAT 571</td>
<td>Multivariate Analysis (if not used to fulfill another requirement)</td>
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Total hours: 32-36

Other Requirements

Requirement | Description
Other requirements may overlap
A concentration is not required.
Minimum 500-level Hours Required: 12
Overall:
Minimum GPA: 3.0

Information listed in this catalog is current as of 03/2020