STATISTICS: ANALYTICS CONCENTRATION, MS

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

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 office: 101 Illini Hall, 725 South Wright Street, Champaign, IL 61820
phone: (217) 333-2167
e-mail: stat-office@illinois.edu

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.

Graduate Degree Programs in Statistics
Statistics, MS (http://catalog.illinois.edu/graduate/las/statistics-ms/
concentrations:
Analytics (p. 1)), Applied (http://catalog.illinois.edu/graduate/las/statistics-ms/applied/)
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.

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Code  Title                          Hours
STAT 440  Statistical Data Management  4
STAT 448  Advanced Data Analysis       4
STAT 510  Mathematical Statistics      4
STAT 542  Statistical Learning         4
Select one of the following:          4
STAT 425  Statistical Modeling I       4
or STAT 527  Advanced Regression Analysis  4
Select one of the following:          4
STAT 424  Analysis of Variance         4
STAT 426  Statistical Modeling II      4
STAT 429  Time Series Analysis         4
STAT 431  Applied Bayesian Analysis    4
STAT 432  Statistical Consulting       4
Select one of the following:          4
STAT 428  Statistical Computing        4
STAT 432  Basics of Statistical Learning  4
STAT 480  Data Science Foundations     4
CS 412   Introduction to Data Mining   4
Select one of the following:          4
STAT 427  Statistical Consulting       4
STAT 593  STAT Internship              4
STAT 443  Professional Statistics      4
STAT 410/ MATH 464  Statistics and Probability II (or equivalent proficiency [may be waived with approval])  4
Select one of the following:          4
STAT 525  Computational Statistics     4
STAT 546  Machine Learning in Data Science  4
STAT 571  Multivariate Analysis        4
CS 512   Data Mining Principles        4
Total hours                          36-40

Other Requirements

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<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
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<tbody>
<tr>
<td>Other requirements may overlap</td>
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<tr>
<td>Minimum 500-level Hours Required</td>
<td>12</td>
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<td>Overall:</td>
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<td>Minimum GPA:</td>
<td>2.75</td>
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Information listed in this catalog is current as of 07/2021