**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: Karle Flanagan, Christopher Kinson  
Graduate Contact: Aaron Thompson  
department website: [http://www.stat.illinois.edu/](http://www.stat.illinois.edu/)  
college website: [https://las.illinois.edu/](https://las.illinois.edu/)  
overview of graduate college admissions & requirements: Graduate Admissions ([https://grad.illinois.edu/admissions/apply](https://grad.illinois.edu/admissions/apply))  
department office: 101 Ilini Hall, 725 South Wright Street, Champaign, IL 61820  
phone: (217) 333-2167  
email: [stat-office@illinois.edu](mailto:stat-office@illinois.edu)

**Graduate Degree Programs in Statistics**

**Statistics, MS** ([http://catalog.illinois.edu/graduate/las/statistics-ms/](http://catalog.illinois.edu/graduate/las/statistics-ms/))  
concentrations:  
Analytics ([p. 1](#))  
Applied ([http://catalog.illinois.edu/graduate/las/statistics-ms/applied](http://catalog.illinois.edu/graduate/las/statistics-ms/applied))  

**Statistics, PhD** ([http://catalog.illinois.edu/graduate/las/statistics-phd](http://catalog.illinois.edu/graduate/las/statistics-phd))  
concentration:  
Computational Science & Engineering ([http://catalog.illinois.edu/graduate/engineering/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](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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For additional details and requirements refer to the department’s Graduate Programs ([http://www.stat.illinois.edu/students/graduates.shtml](http://www.stat.illinois.edu/students/graduates.shtml)) and the Graduate College Handbook ([http://www.grad.illinois.edu/gradhandbook](http://www.grad.illinois.edu/gradhandbook)).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>STAT 440</td>
<td>Statistical Data Management</td>
<td>4</td>
</tr>
<tr>
<td>STAT 448</td>
<td>Advanced Data Analysis</td>
<td>4</td>
</tr>
<tr>
<td>STAT 510</td>
<td>Mathematical Statistics I</td>
<td>4</td>
</tr>
<tr>
<td>STAT 425</td>
<td>Applied Regression and Design</td>
<td>4</td>
</tr>
<tr>
<td>STAT 542</td>
<td>Statistical Learning</td>
<td>4</td>
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Select one of the following:

- STAT 424 Analysis of Variance  
- STAT 426 Sampling and Categorical Data  
- STAT 429 Time Series Analysis  
- STAT 430 Topics in Applied Statistics  
- STAT 578 Topics in Statistics  
- STAT 428 Statistical Computing  
- or CS 412 Introduction to Data Mining  
- STAT 427 Statistical Consulting  
- or STAT 593 STAT Internship  
- STAT 410/MATH 464 Statistics and Probability II (or equivalent proficiency [may be waived with approval])  

Select one of the following:

- STAT 525 Computational Statistics  
- STAT 571 Multivariate Analysis  
- CS 512 Data Mining Principles  

**Total hours** 36-40

**Other Requirements**

<table>
<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>A concentration is not required.</td>
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<tr>
<td>Minimum 500-level Hours Required</td>
<td>12</td>
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<tr>
<td>Overall:</td>
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<tr>
<td>Minimum GPA:</td>
<td>2.75</td>
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