STATISTICS, MS

for the degree of Master of Science in Statistics

Department Chair: Bo Li (https://stat.illinois.edu/directory/profile/libo/)
Associate Department Chair: Jeff Douglas (https://stat.illinois.edu/directory/profile/jeffdoug/)
MS Program Director: Darren Glosemeyer (https://stat.illinois.edu/directory/profile/glosemey/)
MS advisors: Tori Ellison, Hyoeun Lee (https://stat.illinois.edu/academics/advising/)
Graduate Contact: Joseph Zarnsy (stat-grad@illinois.edu)
Department Website: http://www.stat.illinois.edu/

Specific program info here

Graduate Degree Programs in Statistics

Statistics, MS (p. 1)
concentrations:
  Analytics (http://catalog.illinois.edu/graduate/las/statistics-ms/analytics/)
  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/)

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Code | Title | Hours
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STAT 510 | Mathematical Statistics | 4

Select one of the following:

STAT 425 | Statistical Modeling I | 4
or STAT 527 | Advanced Regression Analysis | 4

Select one of the following:

STAT 424 | Analysis of Variance | 4
STAT 426 | Statistical Modeling II | 4
STAT 429 | Time Series Analysis | 4

Five elective courses from Departmental List (See Course List Tab) | 20

STAT 427 | Statistical Consulting (or experience in applied statistics) | 0-4
or STAT 593 | STAT Internship | 0-4
or STAT 443 | Professional Statistics | 0-4
STAT 410/ MATH 464 | Statistics and Probability II (or equivalent proficiency [may be waived with approval]) | 4

Total hours | 32-36

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>
<td></td>
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<tr>
<td>Minimum GPA:</td>
<td>2.75</td>
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Code | Title | Hours
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STAT 424 | Analysis of Variance | 4
STAT 426 | Statistical Modeling II | 4
STAT 427 | Statistical Consulting | 4
STAT 428 | Statistical Computing | 4
STAT 429 | Time Series Analysis | 4
STAT 430 | Topics in Applied Statistics | 4
STAT 431 | Applied Bayesian Analysis | 4
STAT 432 | Basics of Statistical Learning | 4
STAT 433 | Stochastic Processes | 4
STAT 434 | Survival Analysis | 4
STAT 440 | Statistical Data Management | 4
STAT 443 | Professional Statistics | 4
STAT 448 | Advanced Data Analysis | 4
STAT 458 | Math Modeling in Life Sciences | 4
STAT 480 | Data Science Foundations | 4
STAT 511 | Advanced Mathematical Statistics | 4
STAT 525 | Computational Statistics | 4
STAT 530 | Bioinformatics | 4
STAT 534 | Advanced Survival Analysis | 4
STAT 538 | Clinical Trials Methodology | 4
STAT 542 | Statistical Learning | 4
STAT 545 | Spatial Statistics | 4
STAT 546 | Machine Learning in Data Science | 4
STAT 551 | Theory of Probability I | 4
STAT 552 | Theory of Probability II | 4
STAT 553 | Probability and Measure I | 4
STAT 554 | Probability and Measure II | 4
STAT 555 | Applied Stochastic Processes | 4
STAT 571 | Multivariate Analysis | 4
STAT 575 | Large Sample Theory | 4

Information listed in this catalog is current as of 02/2022
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>STAT 578</td>
<td>Topics in Statistics</td>
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<tr>
<td>STAT 587</td>
<td>Hierarchical Linear Models</td>
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<tr>
<td>STAT 588</td>
<td>Covar Struct and Factor Models</td>
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<tr>
<td>STAT 590</td>
<td>Individual Study and Research</td>
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<tr>
<td>STAT 593</td>
<td>STAT Internship</td>
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