STATISTICS: ANALYTICS CONCENTRATION, MS

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

Graduate Degree Programs in Statistics

Statistics, MS

- Analytics (p. 1)
- Applied

Statistics, PhD

- Computational Science & Engineering

Graduate Minor in Statistics

Statistics, PhD

- Computational Science & Engineering

Statistics Department

Department Chair: Bo Li
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MS Program Director: Darren Glosemeyer
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College of Liberal Arts & Sciences
College of Liberal Arts & Sciences website
Admissions
Statistics Department Admissions Info & Requirements
Graduate College Admissions & Requirements
Information listed in this catalog is current as of 12/2023

### Code | Title | Hours
--- | --- | ---
STAT 410/MATH 464 | Statistics and Probability II or equivalent proficiency may be waived with approval | 0-4
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 | Design of Experiments | 4
STAT 426 | Statistical Modeling II | 4
STAT 429 | Time Series Analysis | 4
STAT 431 | Applied Bayesian Analysis | 4
STAT 433 | Stochastic Processes | 4
STAT 528 | Advanced Bayesian Analysis | 4
STAT 533 | Advanced Stochastic Processes | 4
STAT 556 | Advanced Time Series Analysis | 4
Select one of the following: | | 4
STAT 428 | Statistical Computing | 4
STAT 432 | Basics of Statistical Learning | 4
STAT 447 | Data Science Programming Methods | 4
STAT 480 | Big Data Analytics | 4
CS 412 | Introduction to Data Mining | 4
Select one of the following: | | 4
STAT 427 | Statistical Consulting | 4

Select one of the following: 4
STAT 593 | STAT Internship | 4
STAT 443 | Professional Statistics | 4
STAT 525 | Topics in 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

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
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<tbody>
<tr>
<td>Minimum 500-level Hours Required</td>
<td>12</td>
</tr>
<tr>
<td>Minimum GPA</td>
<td>2.75</td>
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