# 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/
**College Website:** https://las.illinois.edu/
Graduate College Admissions Info & Requirements (https://grad.illinois.edu/admissions/apply/)
Department Admissions Info & Requirements (https://stat.illinois.edu/admissions/prospective-graduate-students/)
**Department Contact: Aaron Thompson**
**Department Office: Computing Applications Building, 605 E Springfield Ave, Champaign, IL 61820**
**Phone: (217) 333-2167**
**Email:** stat-grad@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/)

***for the degree of Master of Science in Statistics***

For additional details and requirements refer to the department's Graduate Programs (http://www.stat.illinois.edu/students/graduates.shtml/) and the Graduate College Handbook (http://www.grad.illinois.edu/gradhandbook/).

| Code | Title | Hours |
|---|---|---|
| STAT 510 | Mathematical Statistics | 4 |
| Select one of the following: | | |
| STAT 425 | Statistical Modeling I | 4 |
| or STAT 527 | Advanced Regression Analysis | |
| Select one of the following: | | 4 |
| STAT 424 | Analysis of Variance | |
| STAT 426 | Statistical Modeling II | |
| STAT 429 | Time Series Analysis | |
| STAT 431 | Applied Bayesian Analysis | |
| STAT 433 | Stochastic Processes | |
| 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 | |
| or STAT 443 | Professional Statistics | |
| STAT 410/ MATH 464 | Statistics and Probability II (or equivalent proficiency [may be waived with approval]) | 4 |
| **Total hours** | | **32-36** |

### Other Requirements

| Requirement | Description |
|---|---|
| Other Requirements may overlap | |
| A concentration is not required. | |
| Minimum 500-level Hours Required Overall: | 12 |
| Minimum GPA: | 2.75 |

***for the degree of Master of Science in Statistics***

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

| | |
|---|---|
| STAT 578 | Topics in Statistics |
| STAT 587 | Hierarchical Linear Models |
| STAT 588 | Covar Struct and Factor Models |
| STAT 590 | Individual Study and Research |
| STAT 593 | STAT Internship |