

STATISTICS GRADUATE MINOR

for the Graduate Minor in Statistics

The Graduate Minor in Statistics is designed for doctoral students pursuing degrees in other fields who wish to enhance their statistical knowledge and credentials. Students within the major cannot minor in the same program. The Minor is taken in conjunction with, and is intended to complement the student’s work in their primary disciplines. Admission to the minor requires an application to the Department and admission to a PhD program (MS track to PhD cannot apply until they are in the PhD program) in another field at the University of Illinois Urbana-Champaign. Applications for the Minor are submitted upon completion of the required courses. Approval is contingent on having grade point average of 3.0 or better in the Minor. A total of three courses, constituting 12 graduate credit hours, are required for the minor in Statistics degree. At least 8 credit hours must be taken at the 500 level. No course substitutions allowed.

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Code	Title	Hours
Three courses from the following list:		12
STAT 424	Design of Experiments	
STAT 425	Statistical Modeling I	
STAT 426	Statistical Modeling II	
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 437	Unsupervised Learning	
STAT 440	Statistical Data Management	
STAT 441	Practice of Applied Statistics	
STAT 443	Professional Statistics	
STAT 447	Data Science Programming Methods	
STAT 448	Advanced Data Analysis	
STAT 480	Big Data Analytics	
STAT 510	Mathematical Statistics	
STAT 511	Advanced Mathematical Statistics	
STAT 525	Topics in Computational Statistics	
STAT 527	Advanced Regression Analysis	
STAT 528	Advanced Regression Analysis II	
STAT 530	Bioinformatics	
STAT 533	Advanced Stochastic Processes	
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 556	Advanced Time Series Analysis
STAT 558	Risk Modeling and Analysis
STAT 571	Multivariate Analysis
STAT 575	Large Sample Theory
STAT 576	Empirical Process Theory and Weak Convergence
STAT 578	Topics in Statistics
STAT 587	Hierarchical Linear Models
STAT 588	Covar Struct and Factor Models

Total Hours 12

Other Requirements

Requirement	Description
	At least 8 credit hours must be taken at the 500 level.
	No course substitutions are allowed.

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Students in the Statistics Minor will:

1. Acquire a solid foundation in core statistical theory and methods;
2. Become skillful in statistical software and data analysis;
3. Develop an understanding and gain experience in applying methodology learned in the classroom to real problems in science and industry.

Graduate Degree Programs in Statistics

- Statistics, MS (<http://catalog.illinois.edu/graduate/las/statistics-ms/>)
 - concentrations:
 - Analytic (<http://catalog.illinois.edu/graduate/las/statistics-ms/analytic/>)
- Statistics, PhD (<http://catalog.illinois.edu/graduate/las/statistics-phd/>)
 - optional concentrations for the PhD:
 - Computational Science & Engineering (<http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/>)
 - Data Science & Engineering (<http://catalog.illinois.edu/graduate/engineering/concentration/data-science-engineering/>)
- Graduate Minor in Statistics (p. 1)

for the Graduate Minor in Statistics

Department of Statistics

Department Chair: Yuguo Chen (<https://stat.illinois.edu/directory/profile/yuguo/>) (Interim)

Associate Department Chair: Georgios Fellouris (<https://stat.illinois.edu/directory/profile/fellouri/>)

Graduate Contact: Asraa Ibrahim (<https://stat.illinois.edu/directory/profile/asraai3/>)

Department Website

College Website

Admissions

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: Asraa Ibrahim

Department Office: 156 Computing Applications Building, 605 E Springfield Ave, Champaign, IL 61820

Phone: (217) 333-2167

Department email: stat-grad@illinois.edu