

STATISTICS

Program Information

The Graduate Program provides a Master of Science in Statistics degree, a Master of Statistics degree, and a doctoral Ph.D. degree with a major in Statistics.

For more information, click here (<https://stat.ufl.edu/academics/graduate/>).

Degrees Offered

Degrees Offered with a Major in Statistics

- Doctor of Philosophy
 - without a concentration
 - concentration in Quantitative Finance
- Master of Science in Statistics
- Master of Statistics

Requirements for these degrees are given in the Graduate Degrees (<http://gradcatalog.ufl.edu/graduate/degrees/>) section of this catalog.

Courses

Statistics Departmental Courses

Code	Title	Credits
STA 5325	Fundamentals of Probability	3
STA 5328	Fundamentals of Statistical Theory	3
STA 5503	Categorical Data Methods	3
STA 5507	Applied Nonparametric Methods	3
STA 5701	Applied Multivariate Methods	3
STA 5856	Applied Time Series Methods	3
STA 6092	Applied Statistical Practice	3
STA 6126	Statistical Methods in Social Research I	3
STA 6166	Statistical Methods in Research I	3
STA 6167	Statistical Methods in Research II	3
STA 6177	Applied Survival Analysis	3
STA 6207	Regression Analysis	3
STA 6208	Basic Design and Analysis of Experiments	3
STA 6246	Theory of Linear Models	3
STA 6275	Statistical Computing I: Optimization	3
STA 6276	Statistical Computing II: Monte Carlo Methods	3
STA 6326	Introduction to Theoretical Statistics I	3
STA 6327	Introduction to Theoretical Statistics II	3
STA 6329	Matrix Algebra and Statistical Computing	3
STA 6505	Analysis of Categorical Data	3
STA 6707	Analysis of Multivariate Data	3
STA 6905	Individual Work	1-5
STA 6910	Supervised Research	1-5
STA 6934	Special Topics in Statistics	1-4
STA 6938	Seminar	1
STA 6940	Supervised Teaching	1-5
STA 6942	Internship	1-3
STA 6971	Research for Master's Thesis	1-15
STA 7179	Survival Analysis	3
STA 7233	Advanced Regression	3
STA 7249	Generalized Linear Models	3
STA 7334	Limit Theory	3
STA 7346	Statistical Inference	3

STA 7347	Advanced Inference	3
STA 7348	Bayesian Theory	3
STA 7466	Probability Theory I	3
STA 7467	Probability Theory II	3
STA 7828	Topics in Stochastic Processes	3
STA 7934	Special Topics in Statistics	1-9
STA 7979	Advanced Research	1-12
STA 7980	Research for Doctoral Dissertation	1-15

Student Learning Outcomes

Statistics (PHD)

SLO 1 Knowledge
Recognize and select appropriate results, models, and methods to solve a statistical problem

SLO 2 Skills
Solve problems in statistical theory and analyze statistical methods mathematically and logically

SLO 3 Skills
Review, synthesize, and explain a body of statistical literature, and propose new areas for research

SLO 4 Skills
Create, elaborate, and apply new statistical theory and/or methodology

SLO 5 Professional Behavior
Clearly and effectively present ideas in speech and writing concerning statistical theory, methodology, and applications

Statistics (MS)

SLO 1 Knowledge
Identify and select mathematical results and statistical models appropriate for an analysis

SLO 2 Knowledge
Use mathematical results to analyze statistical methods

SLO 3 Knowledge
Apply statistical methods and models to analyze data

SLO 4 Skills
Devise novel statistical methods or mathematical results, or a novel synthesis or application of existing methods and results

SLO 5 Professional Behavior
Clearly explain, both orally and in writing, statistical methods and their application to data

Statistics (MStat)

SLO 1 Knowledge
Identify and select mathematical results and statistical models appropriate for an analysis

SLO 2 Knowledge
Use mathematical results to analyze statistical methods

SLO 3 Knowledge
Apply statistical methods and models to analyze data

SLO 4 Skills

2 Statistics

Independently acquire and synthesize new knowledge of statistical methods and the analysis of data

SLO 5 Professional Behavior

Clearly and effectively explain, both orally and in writing, statistical methods and their application to data