

#### Charles E. Schmidt College of Science Department of Mathematical Sciences

777 Glades Road Boca Raton, FL 33431

tel: 561.297.3340 fax: 561.297.2436 www.math.fau.edu

## **Certificate Program in Statistics (Updated)**

The certificate program in Statistics enables students to pursue an interdisciplinary course of study in statistics. The required curriculum provides students with necessary statistical foundations of the field and exposes them to practical applications relevant to their chosen area of specialization.

Each course must be completed with a grade of at least "C-." The total number of credits required for this certificate is 23. To obtain the certificate in Statistics, the student must complete the following required/elective courses:

### Please submit application to Dr. Lianfen Qian (Science Building- Room SE248)

Required Courses		
Calculus-Analytic Geometry 1	MAC 2311	4
Calculus-Analytic Geometry 2	MAC 2312	4
Applied Statistics Lab	STA4202L	1
Applied Statistics 1	STA 4234	2
Probability and Statistics 1	STA 4442	3
Choose one from this list		
Probability and Statistics 2	STA 4443	3
Probability and Statistics for Engineers	STA 4032	3
Stochastic Models for Computer Science	STA 4821	3
Stochastic Processes and Random Signals	EEL 4541	3
Recommended mathematics courses		
Calculus 3	MAC2313	4
Matrix Theory	MAS 2103	3
Choose two elective courses		
Intermediate Econometrics	ECO 4422	3
Introduction to Queueing Theory	MAP4260	3
Statistical Physics	PHY 4523	4
RI: Introduction to Data Science* or SAS for	CAP 3786 or	3



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Total		23
Applied Time Series and Forecasting*	STA 4853	3
Applied Statistics 2*	STA 4702	3
RI: Statistical Learning*	STA 4241	3
Statistical Designs*	STA 4222	3
RI: Computational Statistics*	STA 4102	3
Data and Statistical Analyses*	STA 3024	

<sup>\*</sup> Recommended Elective Courses

# **Minor in Statistics (Updated)**

The minor enables students to pursue knowledge in statistics while pursuing a major in other disciplines, including mathematics.

The required curriculum provides necessary statistical foundations of the field and practical applications relevant to their chosen area of specialization.

Each course must be completed with a grade of at least a C. To complete the minor in statistics, one has to complete the following required courses:

Prerequisites		
Title	Course	Credits
Calculus-Analytic Geometry 1	MAC 2311	4
Calculus-Analytic Geometry 2	MAC 2312	4
Matrix Theory	MAS 2103	3
Core Required Courses		
Applied Statistics Lab	STA 4202L	1
Applied Statistics 1	STA 4234	2

<sup>\*</sup> As with all degree programs, the authoritative source for the degree requirements is the University Catalog that was in effect for the academic year in which the student entered the University. The information on this page does not supersede the Catalog.



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Probability and Statistics 1	STA 4442	3			
Probability and Statistics 2 or Probability and Statistics for Engineers	STA 4443 or STA 4032	3			
Select two electives from the following:					
Intermediate Econometrics	ECO 4422	3			
Introduction to Queuing Theory	MAP 4260	3			
Statistical Physics	PHY 4523	4			
RI: Introduction to Data Science or SAS for Data and Statistical Analysis	CAP 3786 or STA 3024	3			
RI: Computational Statistics	STA 4102	3			
RI: Statistical Learning	STA 4241	3			
Statistical Designs	STA 4222	3			
Applied Statistics 2	STA 4702	3			
Applied Time Series and Forecasting	STA 4853	3			
Mathematics and Statistics Total		26			

<sup>\*</sup> As with all degree programs, the authoritative source for the degree requirements is the University Catalog that was in effect for the academic year in which the student entered the University. The information on this page does not supersede the Catalog.