

## REQUIREMENTS FOR A 4-YEAR BA/BSc IN STATISTICS (DATA SCIENCE STREAM)

Required Courses:	<b>STAT-1301(3)</b>	Statistical Analysis I <u>OR</u>
Core Courses	<b>STAT-1401(3)</b>	Statistics I for Business and Economics <u>OR</u>
	<b>STAT-1501(3)</b>	Elementary Biological Statistics I
	<b>STAT-1302(3)</b>	Statistical Analysis II <u>OR</u>
	<b>STAT-2001(3)</b>	Elementary Biological Statistics II
	<b>STAT-2301(3)</b>	Survey Sampling I
	<b>STAT-2903(3)</b>	Statistical Computing I
	<b>STAT-3103(3)</b>	Applied Regression Analysis
	<b>STAT-3102(3)</b>	Applied Multivariate Methods <u>OR</u>
	<b>STAT-3104(3)</b>	Analysis of Variance and Covariance <u>OR</u>
	<b>STAT-3105(3)</b>	Time Series and Forecasting
	<b>STAT/MATH-3611(3)</b>	Mathematical Statistics I
	<b>STAT/MATH-3612(3)</b>	Mathematical Statistics II
	<b>STAT-4103(3)</b>	Statistical Learning
	<b>MATH-1101(6)</b>	Introduction to Calculus <u>OR</u>
	<b>MATH-1103(3)</b>	Introduction to Calculus I <u>AND</u>
	<b>MATH-1104(3)</b>	Introduction to Calculus II
	<b>MATH-1201(3)</b>	Linear Algebra I
	<b>MATH-1401(3)</b>	Discrete Mathematics
	<b>MATH-2105(3)</b>	Intermediate Calculus I
	<b>MATH-2106(3)</b>	Intermediate Calculus II
	<b>MATH-2203(3)</b>	Linear Algebra II
	<b>ACS-1903(3)</b>	Programming Fundamentals I
	<b>ACS-1904(3)</b>	Programming Fundamentals II
	<b>ACS-2814(3)</b>	Application of Database Systems
	<b>ACS-2947(3)</b>	Data Structures and Algorithms
	<b>ACS-3902(3)</b>	Database Systems
	<b>ACS-4953(3)</b>	Introduction to Machine Learning
9 additional credit hours from:	<b>STAT-2102(3)</b>	Business and Management Statistics
	<b>STAT-2103(3)</b>	Intermediate Biological Statistics
	<b>STAT-2104(3)</b>	Nonparametric Statistics
	<b>STAT/MATH-2413(3)</b>	Introduction to Mathematical Finance
	<b>STAT-2501(3)</b>	Statistical Quality Control
	<b>STAT-2702(3)</b>	Statistics for Epidemiology
	<b>STAT-3102(3)</b>	Applied Multivariate Methods
	<b>STAT-3104(3)</b>	Analysis of Variance and Covariance
	<b>STAT-3105(3)</b>	Time Series and Forecasting
	<b>STAT-3302(3)</b>	Survey Sampling II
	<b>STAT-3401(3)</b>	Stochastic Processes
	<b>STAT/MATH-3412(3)</b>	Introduction to Operations Research
	<b>STAT-3501(3)</b>	Simulation
	<b>STAT-3602(3)</b>	Demography
	<b>STAT-3904(3)</b>	Statistical Computing II
	<b>STAT-4102(3)</b>	Survival and Reliability Analysis
	<b>STAT-4202(3)</b>	Statistical Inference
	<b>STAT-4401(3)</b>	Probability Theory
	<b>STAT-4601(3)</b>	Statistical Design of Experiments
	<b>STAT-4501(3)</b>	Spatial Statistics

