

Master of Science Program in Applied Statistics

There are two possible study plans: Plan A (2) consists of coursework and thesis. Plan B consists of coursework, comprehensive examination and independence study.

The curriculum structure: Total – not less than 39 credits

Plan A (2)	<u>Fundamental Course</u>	no credits
	<u>Required Courses</u>	21 credits
	<u>Elective Courses</u> (not less than)	6 credits
	Thesis	12 credits
Plan B	<u>Fundamental Course</u>	no credits
	<u>Required Courses</u>	21 credits
	<u>Elective Courses</u> (not less than)	12 credits
	Independent Study	6 credits

Fundamental Course

ST. 505	Fundamentals of Mathematics and Statistics	3 (3-0-9)
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Required Courses

ST. 611	Probability Theory	3 (3-0-9)
ST. 612	Theory of Statistical Inference	3 (3-0-9)
ST. 621	Statistical Analysis	3 (3-0-9)
ST. 622	Experimental Designs	3 (3-0-9)
ST. 623	Multivariate Analysis	3 (3-0-9)
ST. 631	Regression Analysis	3 (3-0-9)
ST. 641	Sampling Techniques	3 (3-0-9)

Elective Courses

Master Level courses	ST. 625	Quantitative Research	3 (3-0-9)
	ST. 626	Nonparametric Statistical Methods	3 (3-0-9)
	ST. 635	Forecasting Techniques	3 (3-0-9)
	ST. 655	Deterministic Operations Research	3 (3-0-9)

ST. 656	Probabilistic Operations Research	3 (3-0-9)
ST. 657	Demography	3 (3-0-9)
ST. 658	Network Analysis	3 (3-0-9)
ST. 665	Mathematics of Life Contingencies	3 (3-0-9)
ST. 666	Finance and Investment for Actuaries	3 (3-0-9)
ST. 667	Practical Aspect of Life Insurance Analysis	3(3-0-9)
ST. 675	Applied Categorical Data Analysis	3(3-0-9)
ST. 676	Business Decision Methods	3(3-0-9)
ST. 677	Quality Control	3(3-0-9)
ST. 678	Selected Topics in Applied Statistics	3(3-0-9)
ST. 679	Case Studies and Practical Statistical Analysis	3(3-0-9)
ST. 685	Statistical Packages and Computing	3(3-0-9)
ST. 686	Simulation Techniques	3(3-0-9)
ST. 688	Computer Applications in Business	3(3-0-9)
ST. 795	Exploratory Statistics Research	3(3-0-9)

Ph.D. Level Courses	ST. 816	Stochastic Processes	3(3-0-9)
	ST. 835	Applied Spatial Statistics	3(3-0-9)
	ST. 845	Risk Theory	3(3-0-9)
	ST. 855	Genetic Data Analysis	3(3-0-9)