

Master of Science in Applied Statistics and Data Sciences
(Number of program hours = 46)

First Year

First level				Second level			
Code	Course Name	Hr	Requisite	Code	Course Name	Hr	Requisite
6800STAT-3	Fundamental Concepts of Probability and Statistics	3		6803STAT-3	Probability Models and Statistical Computing	3	
6801STAT-3	Data Management and Visualization	3		6804STAT-3	Experimental Design	3	
6802STAT-4	Statistical Software	4		6805STAT-3	Sampling Methods	3	
****STAT-3	Elective Course	3		****STAT-3	Elective Course	3	
Total		13		Total		12	

Second Year

Third level				Forth level			
Code	Course Name	Hr	Requisite	Code	Course Name	Hr	Requisite
6806STAT-3	Applied Multivariate Statistics	3		6907STAT-3	Research project	3	
6807STAT-3	Applied Time Series Analysis	3		****STAT-3	Elective I Course	3	
6808STAT-3	Demographic Methods	3		****STAT-3	Elective Course	3	
****STAT-3	Elective Course	3		Total		9	
Total		12					

Elective course

Code	Course Name	Hr	Requisite
6801STAT-3	Optimization Methods	3	
6802STAT-3	Numerical Methods for Differential Equations	3	
6803STAT-3	Applied Linear Models	3	
6809STAT-3	Statistical Analysis of Reliability and Survival Data	3	
6810STAT-3	Applied Nonparametric Statistics	3	
6811STAT-3	Simulation and Monte Carlo Methods	3	
6812STAT-3	Collecting and Analyzing Big Data	3	
6813STAT-3	Bayesian Data Analysis	3	
6814STAT-3	Actuarial Statistics	3	
6815STAT-3	Neural Networks	3	
6816STAT-3	Longitudinal Data Analysis	3	
6817STAT-3	Meta-Analysis	3	
6818STAT-3	Data Mining and Machine Learning	3	
6819STAT-3	Web, Mobile and Enterprise Computing	3	
6820STAT-3	Cloud Computing and Big data Analytics	3	