Degree Plan for B.Sc. in Statistics

Minimum No. of Credits for Graduation in this Degree Plan = 135			
University Requirements = 24 Credits			
Course Code	**Course Description**	**No. of Credits**	**Pre-requisites**
ARAB100	Arabic Language I	3	
ARAB101	Arabic Language II	3	ARAB100
HIST150	Islamic Civilization	3	
ENGL150	English Language I	3	
ENGL152	English Language II	3	ENGL150
ENGL155	Communication Skills	3	ENGL152
COMP101	Computer Skills	3	COMP-A,COMP-B, Digital Literacy
MNGT100	Entrepreneurship: Creativity and Innovation	3	
University Electives = 3 Credits			
College Requirements = 28 Credits			
MATH116	Pre-Calculus	4	
MATH211	Calculus I	4	MATH116
STAT101	Introduction to Statistics	4	
COMP151/L	Introduction to Algorithms	4	COMP101
CHEM101	General Chemistry I	4	
PHYS101	General Physics I	4	MATH116
PHYS150	General Physics II	4	PHYS101
College Electives = 6 Credits			
Department Requirements = 42 Credits			
MATH145	Linear Algebra I	3	MATH116
MATH212	Calculus II	3	MATH211
STAT210	Principles of Probability	3	STAT101, MATH212
STAT212	Sampling Techniques	3	STAT101, MATH116
STAT266/L	Computational Techniques in Statistics	3	COMP101, STAT101
STAT290/L	Statistical Methods	3	STAT101
STAT320	Mathematical Statistics	3	STAT210, MATH212
STAT339/L	Regression Analysis	3	STAT266L, MATH145
STAT381	Statistical Inference I	3	STAT320
STAT385	Design and Analysis of Experiments I	3	STAT290L
STAT420	Operation Research I	3	MATH211, MATH145
STAT421	Statistical Inference II	3	STAT381
STAT430	Project	6	After 90 Credits
Department Electives = 32 Credits			

- At least 12 credits of electives must be from the statistics elective courses.
- Courses from the Department of Mathematical and Physical Sciences may be taken as electives with written approval of the HOS/HOD.
- Students may opt to take any of the 15-credit approved university minors.

Statistics Elective Courses			
Course Code	**Course Description**	**No. of Credits**	**Pre-requisite**
STAT237	Statistics for Actuarial Science	3	STAT101
STAT340	Probability Models in Decisions Making	3	STAT210
STAT341	Survey Design and Sampling	3	STAT212
STAT351/L	Simulation	3	STAT210
STAT352	Demographic and Health Care Statistics	3	STAT101
STAT379	Applied Statistics	3	STAT290L
STAT380/L	Statistical Packages for Decisions Making	3	STAT266L, STAT290L
STAT387	Stochastic Processes	3	STAT320
STAT428	Quality and Reliability	3	STAT210
STAT442	Operations Research II	3	STAT420
STAT460	Information Theory	3	STAT320
STAT462/L	Data Analysis	3	STAT266L, STAT290L
STAT470	Special Topic in Statistics 1	3	Instructor's Permission
STAT475	Special Topic in Statistics 2	3	Instructor's Permission
STAT480	Special Topic in Statistics 3	3	Instructor's Permission
STAT485	Special Topic in Statistics 4	3	Instructor's Permission
STAT490	Special Topic in Statistics 5	3	Instructor's Permission
STAT495	Special Topic in Statistics 6	3	Instructor's Permission
Statistics Service Courses			
STAT105	Statistics for Engineers	3	MATH211
STAT214	Probability and Statistics for Engineering	3	STAT105, MATH212
STAT281/L	Intermediate Statistics for Business and Economics	3	STAT101
STAT321	Mathematical Statistics for Education	3	STAT101, MATH212
STAT330	Bio-statistical Methods and Epidemiology	3	STAT101
STAT615/L	Educational Computerized Statistics	3	STAT101