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| ***Code*** | ***Title*** | ***Credits*** | ***Option*** |
| First Semester |
| ST 5101 | Calculus and Matrix Algebra | 2 | Prerequisite  |
| ST 5102 | Basic Statistics | 2 | Prerequisite  |
| ST 5103 | Data Analysis Using Statistical Software | 3 | Compulsory  |
| ST 5104 | Sampling Techniques | 2 | Compulsory  |
| ST 5105 | Time Series Analysis | 2 | Compulsory  |
| ST 5151 | Statistical Theory | 4 | Compulsory  |
| ST 5155  | Design and Analysis of Experiments | 2 | Compulsory |
| ST 5198 | Directed Study | 2 | Elective |
| ST 5199 | Seminar | 1 | Elective |
| ST 5106 | Computer Programming | 2 | Elective |
| ST 5152 | Exploratory and Robust Data Analysis | 2 | Elective  |
| ST 5153 | Modeling Binary Data | 2 | Elective  |
| ST 5154 | Statistical Genetics | 2 | Elective  |
| ST 6101 | Vector Analysis | 2 | Elective  |
| ST 6102 | Measure Theory | 2 | Elective  |
| ST 6103 | Group Theory | 2 | Elective  |
| ST 6104 | Graph Theory | 3 | Elective |
| ST 6151 | Variance Components Estimation | 2 | Elective  |
| Second Semester |
| ST 5203 | Regression Analysis | 2 | Compulsory  |
| ST 5204 | Nonparametric Statistics | 2 | Compulsory  |
| ST 5205 | Categorical Data Analysis | 3 | Compulsory  |
| ST 6202 | Multivariate Statistical Methods | 3 | Compulsory  |
| ST 5201 | Advanced Calculus | 2 | Elective |
| ST 5251 | Statistical Methods for Analysis of Spatial Data | 3 | Elective |
| ST 5252 | Design and Analysis of Epidemiological Studies and Clinical Trials | 2 | Elective |
| ST 5253 | Crop Experimentation  | 1 | Elective |
| ST 5254 | Animal Experimentation  | 2 | Elective |
| ST 5255 | Statistical Quality Control | 2 | Elective |
| ST 6201 | Linear Models | 3 | Elective |
| ST 6203 | Stochastic Processes | 2 | Elective |
| ST 6251 | Statistical Computing | 2 | Elective |
| ST 6253 | Statistical Methods for Behavioral Sciences  | 2 | Elective |
| ST 6254 | Advanced Design and Analysis of Experiments | 2 | Elective |