

## Checklist for MS in Data Analytics and Graduate Certificate in Data Analytics

### 1. Course Checklist for M.S. in Data Analytics Degree

Credits	Required Courses in Program of Study
4	ST 516: Foundations of Data Analytics
4	ST 517: Data Analytics I
4	ST 518: Data Analytics II
3	ST 566: Time Series Analytics
3	ST 558: Multivariate Analytics
4	CS 511: Programming Concepts for Non-majors
4	CS 512: Big Data Management
4	CS 513: Applied Machine Learning
3	ST 595: Capstone project
12	Four elective courses from the list below
<b>TOTAL CREDITS: 45</b>	<b>A minimum of 45 credits are required on the Masters Program of Study</b>

Credits	Elective Course list
3	ST 525: Applied Survival Analysis (Required for Health Analytics Concentration)
3	ST 591: Introduction to Quantitative Genetics (Required for Health Analytics Concentration)
3	ST 592: Statistical Methods for Genomic Research (Required for Health Analytics Concentration)
3	ST 515: Design and Analysis of Planned Experiments
3	ST 539: Survey Methods
3	ST 537: Data Visualization
3	ST 538: Modern Analytical Methods for Large and Complex Datasets
3	ST 588: Data Mining

There is one optional concentration for this degree: **Health Analytics Concentration**. Three courses: ST 525, ST 591 and ST 592, are required. This concentration requires a total of 45 credits: 42 credits of required courses and 3 credits (one course) would be selected beyond the required elective courses.

### 2. Graduate Certificate in Data Analytics Course Checklist

Credits	Required Courses in Program of Study
4	ST 516: Foundations of Data Analytics
4	ST 517: Data Analytics I
4	ST 518: Data Analytics II
3	ST 566: Time Series Analytics
3	ST 558: Multivariate Analytics
<b>Total: 18</b>	<b>TOTAL REQUIRED COURSES</b>