

Statistics and Analytics Master of Science

Computational Analytics Concentration Course Requirements

Required Core Areas (12-13 hours)

Statistical Methods Core (One of the following)

- ◇ STAT 5003/5001L Statistical Methods
- ◇ ISYS 5503 Decision Support and Analytics

Regression Analysis Core (One of the following)

- ◇ INEG 5393 Applied Regression Analysis for Engineers
- ◇ STAT 5313 Regression Analysis I
- ◇ ISYS 5623 Multivariate Analysis

Multivariate Analysis Core (One of the following)

- ◇ STAT 5353 Methods of Multivariate Analysis
- ◇ ISYS 5723 Advanced Multivariate Analysis

Experimental Design Core (One of the following)

- ◇ INEG 5333 Design of Industrial Experiments
- ◇ STAT 5373 Experimental Design

Required Track Courses (9 hours)

- CSCE 5523 Database Management Systems
- Two of the following
 - ◇ CSCE 5073 Data Mining
 - ◇ CSCE 5063 Machine Learning
 - ◇ CSCE 5613 Artificial Intelligence

Electives (9 hours)

Electives are chosen by the student in consultation with the Computational Analytics Track advisor. Electives may be any graduate course approved by the Advisor; usually, at least two should be from the C SCE department and all should have a significant computational component.

Comprehensive Examination

Typically, in the 4th semester a comprehensive examination is scheduled in consultation with the advising committee.