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 50133 Statistical Methods
◊ ISYS 55003 Decision Support and Analytics

Regression Analysis Core (One of the following)

◊ INEG 53903 Applied Regression Analysis for Engineers
◊ STAT 53133 Regression Analysis I
◊ ISYS 56203 Multivariate Analysis

Multivariate Analysis Core (One of the following)

◊ STAT 53533 Methods of Multivariate Analysis
◊ ISYS 57203 Advanced Multivariate Analysis

Experimental Design Core (One of the following)

◊ INEG 53303 Design of Industrial Experiments
◊ STAT 53733 Experimental Design

Required Concentration Courses (9 hours)

☐ CSCE 55203 Database Management Systems
☐ Two of the following
    ◊ CSCE 50703 Data Mining
    ◊ CSCE 50603 Machine Learning
    ◊ CSCE 56103 Artificial Intelligence
    ◊ CSCE 55603 Introduction to Deep Learning

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 CSCE 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.