Statistics and Analytics Master of Science

Operations 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
- ◊ INEG 5263 Engineering Statistics

Regression Analysis Core (One of the following)

- ◊ INEG 5393 Applied Regression Analysis for Engineers
- ◊ STAT 5313 Regression Analysis I
- ◊ ISYS 5623 Multivariate Analysis
- ◊ ECON 6613 Econometrics I

Multivariate Analysis Core (One of the following)

- ◊ STAT 5353 Methods of Multivariate Analysis
- ◊ ISYS 5723 Advanced Multivariate Analysis
- ◊ ECON 6623 Econometrics II

Experimental Design Core (One of the following)

- ◊ INEG 5333 Design of Industrial Experiments
- ◊ STAT 5373 Experimental Design
- ◊ ECON 6913 Experimental Economics

Required Track Courses (9 hours)

- ☐ INEG 5613 Optimization Theory I
- ☐ INEG 5803 Simulation

  Data Mining Course (One of the following)
  - ◊ ISYS 5843 Business Intelligence and Knowledge Management
  - ◊ CSCE 5073 Data Mining

Electives (9 hours)

Electives are chosen by the student in consultation with the Operations Analytics Track advisor. Electives may be any graduate course approved by the Advisor. Students wishing to continue their education beyond an MS degree should consider completing an MS Thesis (STAN 600V, 6 hours).