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 50133 Statistical Methods
- ◊ ISYS 55003 Decision Support and Analytics
- ◊ INEG 52603 Engineering Statistics

Regression Analysis Core (One of the following)

- ◊ INEG 53903 Applied Regression Analysis for Engineers
- ◊ STAT 53133 Regression Analysis I
- ◊ ISYS 56203 Multivariate Analysis
- ◊ ECON 66103 Econometrics I

Multivariate Analysis Core (One of the following)

- ◊ STAT 53533 Methods of Multivariate Analysis
- ◊ ISYS 57203 Advanced Multivariate Analysis
- ◊ ECON 66203 Econometrics II

Experimental Design Core (One of the following)

- ◊ INEG 53303 Design of Industrial Experiments
- ◊ STAT 53733 Experimental Design
- ◊ ECON 69103 Experimental Economics

Required Concentration Courses (9 hours)

- ☐ INEG 56103 Optimization Theory I
- ☐ INEG 58003 Simulation
  Data Mining Course (One of the following)
    - ◊ ISYS 58403 Business Intelligence and Knowledge Management
    - ◊ CSCE 50703 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 6000V, 6 hours).