

Statistics and Analytics Master of Science

Quantitative Social Science Concentration Course Requirements

Required Core Areas (12 hours)

Statistical Methods Core (One of the following)

- ◇ PLSC 5913 Research Methods in Political Science
- ◇ PSYC 5133 Inferential Statistics for Psychology (CC)
- ◇ SOCI 5013 Advanced Social Research

Regression Analysis Core (One of the following)

- ◇ PLSC 5943 Advanced Research Methods in Political Science (CC)
- ◇ SOCI 5313 Applied Data Analysis
- ◇ PSYC 5143 Advanced Descriptive Statistics for Psychology (CC)

Multivariate Analysis Core (One of the following)

- ◇ PSYC 5143 Advanced Descriptive Statistics for Psychology (CC)
- ◇ PLSC 5943 Advanced Research Methods in Political Science (CC)
- ◇ STAT 5353 Methods of Multivariate Analysis

Experimental Design Core (One of the following)

- ◇ PSYC 5133 Inferential Statistics for Psychology (CC)
- ◇ ESRM 6413 Experimental Design in Education

Note: (CC) Indicates courses listed across different core course areas. Such courses satisfy only one core area. For more detail, students are recommended to consult with their concentration advisor.

Required Concentration Courses (12 hours)

- ◇ ISYS 5723 Advanced Multivariate Analysis
- ◇ ECON 6623 Econometrics II
- ◇ ECON 5753 Forecasting
- ◇ ECON 6633 Econometrics III

Electives (6 hours)

Electives are chosen by the student in consultation with the Quantitative Social Science advisor. Electives may be any graduate course approved by the Advisor. Students who plan to continue their education beyond an MS degree should consider completing an MS Thesis. Suggested electives include:

- ◇ STAN 600V Master's Thesis
- ◇ STAT 5413 Spatial Statistics
- ◇ PADM 5913 Policy Analysis
- ◇ CSCE 5063 Machine Learning
- ◇ GEOS 5553 Spatial Analysis Using Arc-GIS
- ◇ GEOS 5443 Geospatial Applications and Information Science
- ◇ SOCI 4013 Special Top. in Sociology – Social Network Analysis
- ◇ ISYS 5843 Business Intelligence and Knowledge Management
- ◇ ECON 4433 Experimental Economics
- ◇ GEOS 4653 GIS Analysis and Modeling
- ◇ ISYS 5833 Data Management Systems
- ◇ MGMT 6213 Seminar in Research Meth.
- ◇ INEG 6613 Computational Research Appl.