

Statistics and Analytics Master of Science

Educational Statistics and Psychometrics Concentration Course Requirements

Required Core Areas (12 hours)

Statistical Methods Core (One of the following)

- ESRM 64003 Educational Statistics and Data Processing

Regression Analysis Core (One of the following)

- ◇ ESRM 64203 Multiple Regression Techniques for Education
- ◇ INEG 53903 Applied Regression Analysis in Engineering

Multivariate Analysis Core (One of the following)

- ◇ ESRM 64503 Applied Multivariate Statistics
- ◇ STAT 53533 Methods of Multivariate Analysis

Experimental Design Core (One of the following)

- ◇ ESRM 64103 Experimental Design
- ◇ STAT 53733 Experimental Design
- ◇ INEG 53303 Design of Industrial Experiments

Required Concentration Courses (9 hours)

- ◇ ESRM 66503 Measurement and Evaluation
- ◇ ESRM 50103 Research Methods in Education
- ◇ ESRM 67503 Item Response Theory

Electives (9 hours)

Electives are chosen from the list below in consultation with the track advisor.

- ◇ ESRM 65103 Hierarchical Linear Modeling
- ◇ ESRM 65203 Structural Equations Modeling
- ◇ ESRM 69903 Seminar
- ◇ ECON 56103 Econometrics I
- ◇ ECON 66203 Econometrics II
- ◇ STAT 53733 Experimental Design
- ◇ STAT 53133 Regression Analysis
- ◇ ISYS 57203 Advanced Multivariate Analysis
- ◇ ISYS 58303 Data Management Systems
- ◇ ISYS 58403 Seminar in Business Intelligence and Knowledge Mgmt.
- ◇ STAN 6000V Master's Thesis (total 6 hours)