MEd in Educational, School, and Counseling Psychology with Emphasis in Educational Research Methods and Analysis

Degree Requirements

The Educational Research Methods and Analysis program provides rigorous training in statistical methods, educational measurement, and research methodologies. We offer several courses in applied statistics, from the quantitative foundations of educational research to advanced methods such as multivariate statistics, multilevel modeling, and latent variable modeling. We also offer a number of courses in educational measurement, covering topics such as in classical test theory, item response theory, and generalizability theory. In addition, our students have the opportunity to take a wide range of advanced statistics and quantitative methods courses, from probability, sampling methodology, and categorical data analysis to stochastic theory, time series analysis, Bayesian statistics, and other cutting-edge quantitative techniques. We train our students in various statistical software programs including SPSS, SAS, R, Mplus, Amos, HLM, and BILOG-MG. Our students also take courses in learning theories, aspects of human development, and program evaluation. Graduates from our program are prepared to make scientific and systematic inquiries and to make data-driven decisions, typically attaining employment positions at universities, research centers, and testing organizations.

General Core Courses

Statistics and Research 15
ESC_PS 7170 Introduction to Applied Statistics
ESC_PS 8020 Overview of Research Methods
ESC_PS 8082 Foundations of Educational and Psychological Measurement
ESC_PS 8850 Quantitative Foundations in Educational Research
ESC_PS 8957 Qualitative Methods in Educational Research

Human Diversity (Relevant Course) 3

Research Methods 12

Courses in this area may vary. Possible course selection includes:
ESC_PS 9650 Application of Multivariate Analysis in Educational Research
ESC_PS 9710 Structural Equation Modeling
ESC_PS 9720 Hierarchical Linear Modeling
ESC_PS 8655 Item Response Theory
ESC_PS 8087 Seminar in Educational, School, and Counseling Psychology
ESC_PS 8690 Educational Planning and Evaluation

Selected graduate level courses from the Statistics Department with advisor approval (e.g. Bayesian statistics, nonparametric statistics).

Sample Plan of Study

The plan of study will depend on the student’s career goals and research interests, and should be completed in consultation with the Master’s Committee.

Thesis/Non-Thesis Requirements

To complete the comprehensive exam, students must successfully complete a written comprehensive exam.

Admissions

Applicants are required to meet two sets of minimum qualifications for admission: the requirements of the MEd in Educational, School & Counseling Psychology program (http://gradstudies.missouri.edu/academics/programs/educational,-school-and-counseling-psychology/ma,-m-ed-or-edsp-in-educational,-school--counseling-psychology.php) and the minimum requirements of the Office of Graduate Studies (http://gradstudies.missouri.edu/admissions/eligibility-process/minimum-requirements.php).

1. Apply online by submitting the following documents using the MU Office of Graduate Studies (https://applygrad.missouri.edu/apply) application form by January 15th for the next Fall cohort.
2. The three letters of recommendation
3. Curriculum Vita
4. Official academic transcripts of all previous undergraduate and graduate work
   a. Minimum undergraduate GPA of 3.0 from an accredited institution in psychology, education, or a related major.
5. Statement of purpose addressing the following:
   a. Describe interests and experiences engaging in research, working with statistics, using measurement techniques and how these experiences have prepared you for graduate study. (500 word maximum)
   b. Describe (1) your research interests that you hope to pursue in graduate school; (2) how these interests match those of specific faculty; (3) your career objectives; and (4) how being accepted into MU’s program will benefit your career aspirations. (Please limit to 500 words)
6. Official Graduate Record Examination (GRE) scores for tests taken within the last 5 years should have a combined Verbal and Quantitative score of 305.
7. TOEFL for international students (preferred score of 580 for paper test, 92 iBT, IELTS 6.5 or higher)