Research, Measurement, and Evaluation: M.S.Ed.

Program Components and Courses

The curriculum of the M.S.Ed. in RME is structured around three components: (a) a core set of 24 credits (8 courses of 3 credits each) of required coursework covering the fundamentals of research design, measurement, and statistical analysis; (b) 6 credits of elective course work; and (c) a comprehensive exam occurring upon the completion of the 24 credits of required coursework. The specific details of the curriculum are given below.

(A) Core set of 24 credits (8 courses)

EPS 553 (Introduction to Statistics)
EPS 568 (Computer applications in educational and behavioral sciences research)
EPS 654 (Program evaluation)
EPS 661 (Measurement and psychometric theory)
EPS 670 (Research methods) or EPS 554 (Essentials of Research)
EPS 671 (ANOVA)
EPS 672 (Regression)
EPS 675 (Qualitative I)

(B) Electives of 6 credits (2 courses)

With advisor's approach, students can select from a large number of graduate courses relevant to the student's interest and professional goals. Appropriate courses can include advanced statistical modeling courses, or other courses in particular content areas. Examples of electives include:

EPS 607 Advanced Individual Study
EPS 652 Nonparametric Methods for Quantitative Analysis
EPS 650 Meta-Analysis Methods
EPS 659 Field Experience in Educational Research
EPS 676 Qualitative Research Methods II: Case Studies and Grounded Theory
EPS 677 Qualitative Research Methods II: Interviewing and Content Analysis
EPS 678 Applied Multivariate Statistics
MTH 524 Introduction to Probability Theory (Department of Mathematics)
MTH 542 Statistical Analysis (Department of Mathematics)
MTH 525 Introduction to Mathematical Statistics (Department of Mathematics)
MTH 625 Multivariate Analysis (Department of Mathematics)
MAS 602 Multivariate Statistics (School of Business)
MAS 603 Design of Experiments (School of Business)

In addition, a variety of other graduate courses may be taken in the fields of computer science, psychology, and education, as well as other areas of interest.

Program Components and Courses
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(C) Comprehensive Exam

Each student must successfully pass a comprehensive exam that covers the content of the core 24 credits. This exam assesses the student's competency in these core areas of research methodology and use of statistical software, and is based on content that is aligned with the material covered in the core 24 credits.