



UNIVERSITY OF MISSOURI-COLUMBIA

College of Arts and Science

Psychological Sciences

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## MA in Applied Psychometrics Curriculum

Students will complete 35 credit hours in coursework on psychometrics, applied statistics, and computing. Twenty-three credit hours are required courses, while the remaining 12 are electives. Upon completion of the coursework, students will take a comprehensive examination.

- Required Coursework

- General linear models in psychology I (4 hours)
- General linear models in psychology II (4 hours)
- Latent variable models in statistical psychology (3 hours)
- Item response theory in psychology I (3 hours)
- Item response theory in psychology II (3 hours)
- Advanced topics in psychometrics (3 hours)
- Computing in SAS and R (3 hours)

- Elective Coursework (3 hours each)

- Multivariate statistics in psychology
- Multilevel modeling
- Psychological process models
- Advanced structural equation modeling
- Categorical data analysis
- Cluster analysis and network analysis

- Comprehensive examination: The comprehensive examination will cover the full range of the student's coursework and will include both theoretical material and applied data analysis. The examination will be graded as pass/fail.