

EDUCATIONAL PSYCHOLOGY, MS: EDUCATIONAL STATISTICS AND MEASUREMENT

Many fields and employers need professionals who have expertise in statistics and measurement to make sense of data and use data to answer research questions.

UWM's Department of Educational Psychology offers a few options for students who are interested in specializing in educational statistics and measurement. The Master's program will provide students with the knowledge necessary to execute research and evaluate and critique existing research — a valuable asset whether you're planning to put your skills to use in the workforce right away or go on to doctoral studies.

Why Choose Our MS Program?

Ranked #13 in Best Master's in Assessment and Measurement degree programs of 2025 by Intelligent.com (<https://www.intelligent.com/best-masters-in-assessment-and-measurement-degree-programs/>).

You'll be taught and mentored by faculty who specialize in this field, and after completing your master's studies you'll be ready to:

- Analyze and interpret data
- Design and build assessment instruments
- Design research projects and address research questions using quantitative data
- Conduct program evaluations

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

Application

Before applying please see the Educational Psychology Website (<https://uwm.edu/education/academics/educational-psychology-department/>) for department-specific application requirements.

Admission

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate GPA of 3.00.
2. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

3. Initial advisor assignment will be made by the area chair of the concentration to which the applicant has applied.
4. For the concentrations in Clinical Mental Health Counseling, School Counseling, and School Psychology: a resume or curriculum vitae.
5. Completion of the reason statement in the application.

Credits and Courses

Students are required to complete 30 credits for the master's degree.

| Code | Title | Credits |
|---|--|-----------|
| Core | | |
| ED PSY 624 | Statistical Methods for Professionals and Practitioners I | 3 |
| ED PSY 720 | Techniques of Educational and Psychological Measurement | 3 |
| ED PSY 724 | Statistical Methods for Professionals and Practitioners II | 4 |
| ED PSY 728 | Techniques of Educational Research | 3 |
| Cognitive and Developmental Sciences | | 6 |
| ED PSY 631 | Cognition: Learning, Problem Solving and Thinking | |
| ED PSY 640 | Human Development: Theory and Research | |
| ED PSY 734 | Contextual Determinants of Motivation | |
| ED PSY 735 | Social Cognition in Educational Psychology | |
| ED PSY 742 | Personality Theories and the Educational Process | |
| ED PSY 743 | Human Development: Study of Infancy and Early Childhood | |
| ED PSY 746 | Human Development: Study of the Adolescent | |
| ED PSY 747 | Human Development: Study of the Adult | |
| ED PSY 831 | Cognition: Theory and Research | |
| ED PSY 833 | Social Psychology of Group Differences: Race and Ethnicity | |
| ED PSY 834 | The Psychology of Achievement Motivation | |
| ED PSY 844 | The Multicultural Family | |
| ED PSY 845 | Immigrant Child in Developmental Perspective | |
| Electives (11 credits) | | 11 |
| <i>6 credits must be from the following Educational Statistics and Measurement courses:</i> | | |
| ED PSY 820 | Multiple Regression | |
| ED PSY 821 | Psychometric Theory and Scale Development | |
| ED PSY 822 | Item Response Theory | |
| ED PSY 823 | Structural Equation Modeling | |
| ED PSY 824 | Advanced Experimental Design and Analysis | |
| ED PSY 825 | Multivariate Methods | |
| ED PSY 826 | Analysis of Cross-Classified Categorical Data | |
| ED PSY 827 | Survey Research Methods | |

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|----------------------|---|-----------|
| ED PSY 828 | Program Evaluation in Education | |
| ED PSY 829 | Instrument Development | |
| ED PSY 832 | Theory of Hierarchical Linear Modeling | |
| ED PSY 922 | Seminar in Measurement and Evaluation: | |
| ED PSY 929 | Seminar in Statistics and Research Design | |
| Total Credits | | 30 |

Students' programs of study are developed in consultation with their assigned advisor. Other relevant elective courses may be approved by the advisor.

Additional Requirements

Advising

Each student will be assigned two advisors: an academic advisor and a faculty advisor. The academic advisor will assist with academic planning. The faculty advisor will be available for additional support regarding course content and/or field-specific questions and concerns. A student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

Thesis

Optional. Up to 6 degree credits may be awarded for thesis research. The availability of the thesis option is dependent upon faculty availability and time constraints.

Comprehensive Examination

The student who does not write a thesis must pass a final oral or written comprehensive examination. For School Counseling students, the comprehensive capstone exam is the School Counseling National Praxis Subject Exam. For Clinical Mental Health Counseling students, the comprehensive capstone exam is the CPCE. The student who writes a thesis must pass a final oral examination in defense of that thesis.

Time Limit

The student must complete all degree requirements within five years of initial enrollment.

Educational Psychology MS: Educational Statistics and Measurement Learning Outcomes

Students graduating from the Educational Statistics and Measurement MS program will be able to:

- Explain how various statistical methods commonly used in educational research are related to and differ from each other.
- Choose the appropriate quantitative method for a given educational research data analysis.
- Analyze data and obtain appropriate results using statistical software.
- Correctly perform and interpret the results of psychometric data analyses.
- Correctly perform and interpret the results of quantitative data analyses commonly used in educational research.