EDUCATIONAL PSYCHOLOGY, PHD: EDUCATIONAL STATISTICS AND MEASUREMENT

Student learning is measured more than ever before, and that means that the education field needs professionals who have expertise in educational statistics and measurement.

You'll find our graduates working in universities, state and federal agencies, test publishing organizations, school systems, state departments of education, marketing research companies and research centers, among other settings.

Educational Psychology PhD
The goal of the Doctor of Philosophy in Educational Psychology is to prepare psychologists, researchers and educational professionals to effectively work on the unique challenges of promoting education, learning, and mental health in urban environments. The four areas of emphasis in the doctoral program are:

- Counseling Psychology
- Cognitive and Developmental Sciences
- Educational Statistics and Measurement
- School Psychology

See the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department) for more information on these areas.

The Counseling Psychology and School Psychology specializations at the master's and doctoral level are accredited by the American Psychological Association (APA).

Office of Program Consultation and Accreditation
American Psychological Association
750 1st Street, NE, Washington, DC 20002
Phone: (202) 336-5979
E-mail: apaaccred@apa.org
Website: American Psychological Association Website (https://www.apa.org/ed/accreditation)

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).

Admission
To be considered for admission to the program applicants must complete the Graduate School online application, and satisfy all UWM Graduate School admission requirements in addition to the following program requirements:

- Submission of scores on the General Test portion of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/

#gre); test taken within last five years. (Not required for the Cognitive and Developmental Sciences area of concentration.)
- Undergraduate GPA of at least 3.0; graduate GPA of at least 3.5 required.
- A letter outlining the applicant's academic and professional background, declaration of Area of Concentration (Counseling Psychology, Cognitive and Developmental Sciences, Educational Statistics and Measurement, or School Psychology) as well as specific research interests and goals for the PhD program.
- Three letters of recommendation from individuals familiar with the applicant's intellectual achievement and potential.
- Applicants to the Cognitive and Developmental Sciences concentration must submit at least one sample of their academic writing. You may add additional materials that highlight your professional and/or academic skills.

Credits and Courses

Core Educational Psychology Requirements
All doctoral students are required to complete 36 core credits in the areas of Psychological Foundations, Urban Foundations, and Research Methods. In many cases, students entering with a Master's degree will have completed some of these courses. Courses taken during Master's preparation may be counted in meeting the core requirements. Elective credits are taken in consultation with the major professor.

Psychological Foundations Core: Students must take 12 credits minimum of psychological foundations (social, cognitive, affective, or biological basis of behavior); students without ED PSY 631 and ED PSY 640 must take these courses as part of their 12-credit minimum.

Urban Foundations: 3 credits minimum.

Research Methods Core: 15 credits
All doctoral students must show documentation that they have acquired research skills needed for dissertation work. To fulfill this requirement students must successfully complete 13 credits of coursework in the area of research methods at the 700 level or above, including ED PSY 724 and six credits at the 800 level or above. Students should consult the specific requirements for their area of specialization for additional requirements, as the requirements for each area of specialization may exceed those specified here.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 631</td>
<td>Cognition: Learning, Problem Solving and Thinking</td>
<td>3</td>
</tr>
<tr>
<td>PSY 640</td>
<td>Human Development: Theory and Research</td>
<td>3</td>
</tr>
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</table>

Select two of the following: 6

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>PSY 734</td>
<td>Contextual Determinants of Motivation</td>
</tr>
<tr>
<td>PSY 735</td>
<td>Social Cognition in Educational Psychology</td>
</tr>
<tr>
<td>PSY 741</td>
<td>Cognitive Development</td>
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<tr>
<td>PSY 742</td>
<td>Personality Theories and the Educational Process</td>
</tr>
<tr>
<td>PSY 743</td>
<td>Human Development: Study of Infancy and Early Childhood</td>
</tr>
<tr>
<td>PSY 746</td>
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</tbody>
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EDPSY 730: Research Methods: Theory and Research
EDPSY 731: Research Methods: Educational Psychology
EDPSY 732: Research Methods: Cognition
EDPSY 733: Research Methods: Statistics
EDPSY 734: Research Methods: Psychological Foundations
EDPSY 735: Research Methods: Cognitive and Developmental Sciences
EDPSY 736: Research Methods: Educational Measurement
EDPSY 737: Research Methods: School Psychology
EDPSY 738: Research Methods: Human Development: Theory and Research
EDPSY 739: Research Methods: Contextual Determinants of Motivation
EDPSY 740: Research Methods: Social Cognition in Educational Psychology
EDPSY 741: Research Methods: Cognitive Development
EDPSY 742: Research Methods: Personality Theories and the Educational Process
EDPSY 743: Research Methods: Human Development: Study of Infancy and Early Childhood
EDPSY 744: Research Methods: Human Development: Study of the Adolescent

EDPSY 631: Educational Psychology: Cognitive and Developmental Sciences
EDPSY 640: Educational Psychology: Educational Statistics and Measurement
EDPSY 642: Educational Psychology: School Psychology
EDPSY 643: Educational Psychology: Urban Foundations
EDPSY 644: Educational Psychology: Psychological Foundations
EDPSY 645: Educational Psychology: Human Development: Theory and Research
EDPSY 646: Educational Psychology: Contextual Determinants of Motivation
EDPSY 647: Educational Psychology: Social Cognition in Educational Psychology
EDPSY 648: Educational Psychology: Cognitive Development
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ED PSY 747 Human Development: Study of the Adult
ED PSY 748 Oral Language, Cognition, and Literacy
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

Urban Foundations
EDUC 701 Urban Educational Issues 3

Research Core
ED PSY 624 Educational Statistical Methods I 3
ED PSY 724 Educational Statistical Methods II 4
Select 7 credits from the following: 7
ED PSY 720 Techniques of Educational and Psychological Measurement
ED PSY 728 Techniques of Educational Research
ED PSY 820 Multiple Regression
ED PSY 821 Psychometric Theory and Practice
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 in Education
ED PSY 829 Instrument Development
ED PSY 922 Seminar in Measurement and Evaluation:
ED PSY 929 Seminar in Statistics and Research Design
AD LDSP 729 Qualitative Research and Field Studies in Education Settings

Total Credits 29

Core Concentration Requirements
All students must complete core courses in their area of concentration. Minimum credit requirements vary with the area of concentration due to accreditation and certification requirements.

Other Requirements
In addition to the requirements listed below, please refer to the program handbook for each concentration.

Students Entering Without a Master’s
In the School Psychology concentration, students entering without a master’s degree in School Psychology must complete the following:

Code Title Credits
ED PSY 751 Professional and Historical Issues in School Psychology 3
ED PSY 752 Developmental Psychopathology 3
ED PSY 755 Assessment and Intervention: School Age 3
ED PSY 760 Academic Intervention and Alternative Assessment 3
ED PSY 851 Assessment and Interventions: Personality, Social and Emotional Functioning

Educational Statistics and Measurement Concentration

Select 8 of the following: 24
ED PSY 720 Techniques of Educational and Psychological Measurement
ED PSY 728 Techniques of Educational Research
ED PSY 820 Multiple Regression
ED PSY 821 Psychometric Theory and Practice
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 in Education
ED PSY 829 Instrument Development
ED PSY 922 Seminar in Measurement and Evaluation:
ED PSY 929 Seminar in Statistics and Research Design

Total Credits 24

Program Requirements

Advising and the Major Professor
Upon admission to the doctoral program in Educational Psychology, students are assigned a temporary advisor in their area of emphasis (e.g., Counseling Psychology, Cognitive and Developmental Sciences, Educational Statistics and Measurement, or School Psychology). This person is available to discuss initial course selection and provide general advice about the program. After beginning the program and before filing a Student Academic Plan, students should seek a Major Professor. The permanent Major Professor may—but does not have to be—the same person who is the temporary advisor. Students must select an advisor in their area of emphasis. Selection of a Major Professor is by mutual consent between the student and the faculty member. Students should notify the Training Director within their emphasis when the Major Professor has been selected.

Residence
The student must meet minimum Graduate School residence requirements (http://uwm.edu/graduateschool/doctoral-requirements/#residence) of one continuous academic year of full-time graduate studies at UWM. This can be satisfied by completing at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence credit cannot be earned at the master’s level.
Practicum
Students in the Counseling Psychology and School Psychology concentrations are required to complete practicum requirements to become licensed.

Internship
Following Practicum, students in the Counseling Psychology and School Psychology concentrations are required to complete a year-long internship in order to be licensed.

Publishable Paper
Students are required to work with faculty to have a “publishable” paper within 30 credits of admission to the doctoral program. This may be their master’s theses and/or master’s papers, where original research is generated or a critical review of research is developed. It may also be a collaborative effort, such as publishing a chapter or article with a faculty advisor or other faculty collaborator.

Minor
Counseling Psychology and School Psychology students must complete 9 credits in the Department of Psychology. The minor will be optional for students in Cognitive and Developmental Sciences and Educational Statistics and Measurement, based on consultation with an advisor.

Doctoral Preliminary Examination
The Doctoral Preliminary Examination is taken at the end of a student’s coursework. A description of the Preliminary Examination is provided in the doctoral handbook corresponding to the student’s specialization area within Educational Psychology.

The Preliminary Examination consists of a written component and, in some specializations, an oral component. The purpose of the Preliminary Examination is to determine whether the student demonstrates understanding of coursework and related bodies of knowledge and is qualified to proceed with dissertation planning. A minimum of three faculty members in the specialization area shall participate on a student’s Preliminary Examination.

Proposal Hearing
A doctoral student qualifies as a “doctoral candidate” upon completion of the doctoral Student Academic Plan, successful completion of the Doctoral Preliminary Examination for the PhD degree, and successfully passing a dissertation proposal hearing. The hearing is open and the date, time and location must be announced by the Doctoral Coordinator. Each member of the committee must sign the doctoral dissertation proposal hearing form, and indicate approval or disapproval. A simple majority of all committee members is required. No absentee ballots are acceptable.

Dissertation Defense
The candidate must write a dissertation that demonstrates the ability to pursue independent research. The candidate must pass an oral exam in defense of the dissertation.

Exit Requirements
Contingent upon satisfactory completion of program requirements, passage of the preliminary qualifying examination, and successful oral defense of the dissertation, the Chair of the Department of Educational Psychology will give final approval of the PhD in Educational Psychology.

Time Limit
It is expected that most students will complete all degree requirements within six years of initial enrollment in the doctoral program. All requirements MUST be completed within ten years from the date of initial enrollment.