

# PH.D. IN RESEARCH, MEASUREMENT, AND EVALUATION

<https://eps.edu.miami.edu/graduate/doctoral/rme-phd/index.html>

## Overview

The curriculum of the Ph.D. in RME is structured around six components: (A) a core set of 36 credits (12 courses of 3 credits each) of required coursework covering the fundamentals of research design, measurement, and statistical analysis; (B) 6 credits of a research apprenticeship, in which students conduct mentored research under the supervision of RME faculty members; (C) 6 credits of field experience in educational research, in which students play active roles in the design and analysis of an applied research or evaluation projects; (D) the doctoral qualifying exam; (E) 12 credits of the doctoral dissertation and (F) 6 credits of electives (12 credits of electives for students who do not hold a master degree).

## Application Requirements

Admission to all graduate-degree concentrations in the School of Education and Human Development is based on the recommendation of the faculty. Admissions decisions are based on faculty review of the following general requirements that apply to **all** Graduate Programs in the School as well as specific documents listed under each concentration.

### Applicants must:

- achieve acceptable scores on the Graduate Record Exam (GRE) taken within the past five years. International applicants whose native language is not English or applicants whose degrees are from a non-U.S. University must pass the Test of English as a Foreign Language (TOEFL) or International English Language Testing Systems (IELTS) and the GRE;
- provide official transcripts showing completion of a bachelor's degree from an accredited institution and an acceptable undergraduate grade point average. A minimum of 3.0 undergraduate GPA is required. Official transcripts from every institution attended by an applicant, whether or not the applicant completed a degree program at the institution, are required;
- provide three letters of recommendation that address the issues and meet the criteria established by the program being applied to;
- provide a personal statement that addresses the mission and purpose of the program being applied to;
- resume;
- take part in an admissions interview (required by some programs); and
- exhibit personal and professional experiences and characteristics that are relevant to the profession and/or field and/or degree program for which the application is being submitted.

### Doctor of Philosophy (Ph.D.)

**In addition to** the factors listed as general requirements for all applications to the SEHD's graduate programs, consideration for admission to the Ph.D. program will include the following:

- letters of recommendation should address the applicant's *academic* potential;
- available student space in the program;

### International Applications

All international applications must provide additional information and meet additional requirements as required by the UM Graduate School and the Office of International Student and Scholar Services. For an appropriate link to these requirements, please visit the Graduate School website.

### Admission Decision

Once an applicant has been admitted to graduate study, that individual should meet with the faculty advisor who was appointed to serve in that capacity and whose name appears in the admissions letter. This advisor will help the student enroll in courses that are appropriate to the program; to develop and to refine a Program of Study that must be on file in the Office of Graduate Studies by the end of the first academic year of enrollment.

### Honor Code/Handbook of Policies and Procedures

The School of Education and Human Development follows the Graduate School's Honor Code. All students are required to review the Graduate Student Honor Code and the School of Education and Human Development's Handbook of Policies and Procedures for Graduate Students and submit the signed Acknowledgement of Receipt located on page 3 by the end of their first semester of enrollment.

## Curriculum Requirements

Code	Title	Credit Hours
<b>Core Courses</b>		<b>36</b>
EPS 700	Quantitative Methods I	
EPS 701	Introduction to Research Methods	
EPS 702	Quantitative Methods II	

EPS 703	Applied Multivariate Statistics	
EPS 704	Computer Applications in Educational and Behavioral Science Research	
EPS 705	Measurement and Psychometric Theory	
EPS 706	Categorical Data Analysis	
EPS 707	Item Response Theory	
EPS 708	An Introduction to Structural Equation Modeling for Multivariable Data	
EPS 709	Introduction to Multilevel Modeling	
EPS 710	Meta-Analytic Methods for Research Synthesis	
EPS 711	Advanced Topics in Research, Measurement, and Evaluation	
<b>Research Apprenticeship</b>		<b>6</b>
EPS 799	Advanced Individual Study II <sup>1</sup>	
For a minimum of 6 research apprenticeship credits, students work under the mentorship of RME faculty members (or approved faculty members outside of RME) on original studies pertinent to research, measurement, and evaluation. It is expected that the work completed during the apprenticeship culminates in a manuscript that is suitable for publication in an academic journal. The 6 credits of apprenticeship are documented as two 3-credit blocks of EPS799 (Advanced Individual Study, Form for registering for EPS799 can be found on the SEHD website under the resource tab; and the research apprenticeship must be completed prior to the commencement of dissertation hours (EPS830).		
<b>Field Experience in Educational Research</b>		<b>6</b>
EPS 712	Field Experience in Educational Research <sup>1</sup>	
Students must complete a minimum of 6 credits in field experience related to educational research. The field experience involves providing methodological assistance to a research or evaluation project at the University of Miami or other approved organization (e.g., the evaluation division of Miami-Dade County Public Schools). The nature of the field experience must be approved by the student's advisor prior to commencing the credit hours. The field experience credits are currently documented as EPS712.		
<b>Doctoral Qualifying Exam</b>		
Students must successfully pass the doctoral qualifying exam prior to the commencement of the doctoral dissertation.		
<b>Dissertation Hours</b>		<b>12</b>
EPS 830	Pre-Candidacy Dissertation Research	
EPS 840	Post-Candidacy Dissertation Research	
<b>Electives</b> <sup>1 2 3 4</sup>		<b>6-12</b>
Upon the approval of academic advisor, courses outside program may be taken for a minimum of 6 credit hours (course examples are shown below).		
EPS 712	Field Experience in Educational Research	
EPS 714	Qualitative Methods I	
EPS 715	Qualitative Methods II: Case Studies and Grounded Theory	
EPS 716	Qualitative Methods II: Interviews and Content Analysis	
EPS 799	Advanced Individual Study II	
<b>Total Credit Hours</b>		<b>66-72</b>

<sup>1</sup> EPS 799 (Advanced Individual Study) and EPS 712 (Field Experience in Educational Research) can be repeated over and above the credits fulfilling a student's apprenticeship (6 credits) and field experience (6 credits) requirements.

<sup>2</sup> 6 credits for students with a Master degree; 12 credits for students without a Master degree

<sup>3</sup> Upon the approval of your academic advisor, you can take the classes from other departments.

<sup>4</sup> Additional courses may be substituted upon approval from a student's academic advisor. These options include a variety of graduate courses in the fields of computer science, psychology, education, and other areas of interest.

This is a sample Plan of Study. Your actual course sequence may vary depending on your previous academic experience as well as current course offerings. Students should meet with their academic advisor each semester to determine the appropriate course selection.

## Sample Plan of Study

Year One		Credit Hours
<b>Fall</b>		
EPS 700	Quantitative Methods I	3
EPS 701	Introduction to Research Methods	3
EPS 707	Item Response Theory	3
<b>Credit Hours</b>		<b>9</b>
<b>Spring</b>		
EPS 699	Advanced Individual Study I	3
EPS 702	Quantitative Methods II	3
EPS 703	Applied Multivariate Statistics	3
<b>Credit Hours</b>		<b>9</b>
<b>Summer</b>		
EPS 704	Computer Applications in Educational and Behavioral Science Research	3
EPS 799	Advanced Individual Study II	3
<b>Credit Hours</b>		<b>6</b>
<b>Year Two</b>		
<b>Fall</b>		
EPS 709	Introduction to Multilevel Modeling	3
EPS 710	Meta-Analytic Methods for Research Synthesis	3
EPS 799	Advanced Individual Study II	3
<b>Credit Hours</b>		<b>9</b>
<b>Spring</b>		
EPS 705	Measurement and Psychometric Theory	3
EPS 706	Categorical Data Analysis	3
EPS 708	An Introduction to Structural Equation Modeling for Multivariable Data	3
<b>Credit Hours</b>		<b>9</b>
<b>Year Three</b>		
<b>Fall</b>		
BST 605	Statistical Principles of Clinical Trials	3
EPS 711	Advanced Topics in Research, Measurement, and Evaluation	3
EPS 712	Field Experience in Educational Research	3
<b>Credit Hours</b>		<b>9</b>
<b>Spring</b>		
ATM 624	Applied Data Analysis	3
EPS 712	Field Experience in Educational Research	3
NUR 630	Research Methods and Evidence-Based Practice	3
<b>Credit Hours</b>		<b>9</b>
<b>Year Four</b>		
<b>Fall</b>		
EPS 830	Pre-Candidacy Dissertation Research	3
<b>Credit Hours</b>		<b>3</b>
<b>Spring</b>		
EPS 830	Pre-Candidacy Dissertation Research	3
<b>Credit Hours</b>		<b>3</b>
<b>Year Five</b>		
<b>Fall</b>		
EPS 840	Post-Candidacy Dissertation Research	3
<b>Credit Hours</b>		<b>3</b>

<b>Spring</b>		
EPS 840	Post-Candidacy Dissertation Research	3
	<b>Credit Hours</b>	<b>3</b>
	<b>Total Credit Hours</b>	<b>72</b>

## Mission

The mission of the RME doctoral program is to provide students with the requisite training in the application of statistical and measurement methodologies to conduct original research in the fields of educational research and measurement methodology, and to serve as experts in the areas of research design, data analysis, and measurement.

## Goals

### Student Learning Outcomes

- Students will demonstrate mastery of the computer programming skills that is required for conducting research project using computer simulation in R.
- Students will conduct original research in the field of statistical and measurement methodology.
- Students will demonstrate the ability to provide methodological consultation.