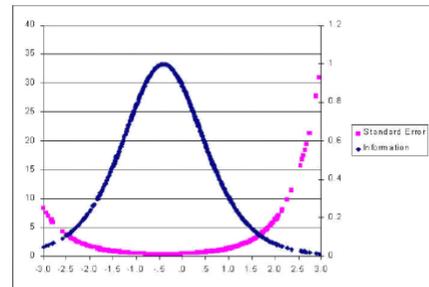


# Measurement, Evaluation, and Statistics

Department of Human Development



## Ph.D. PROGRAM

Major Code: **MEAS**

**Teachers College, Columbia University**

**2022-2023**

The Ph.D. Program in Measurement and Evaluation is designed to prepare graduates for careers in a wide range of educational settings. Graduates acquire specialized knowledge and skills in test theory, test and instrument development and validation, program evaluation, and quantitative analysis of educational and psychological data.

Some graduates pursue careers as university/college professors teaching measurement, evaluation, and statistics. Some are employed in city and state departments of education in the planning and supervision of testing programs and research and evaluation projects. Others work for test publishers, licensure and certification boards, and government agencies in the construction of tests or in the management of large-scale testing programs. Still others work for contract research firms evaluating programs in a variety of social science, healthcare, business and industrial settings.

The Ph.D. is appropriate for individuals with strong quantitative and technical skills who wish to develop and evaluate new methods in measurement and evaluation, or who have a strong background in a substantive area of psychology in which they wish to further the development and application of measurement techniques.

# Program Requirements

Doctor of Philosophy – 75 points

## Measurement Core (15 points):

HUDM 5059	Psychological measurement (3)
HUDM 5124	Multidimensional scaling and clustering (3)
HUDM 6051	Psychometric theory I (3)
HUDM 6052	Psychometric theory II (3)
HUDM 6055	Latent structure analysis (3)

## Evaluation Core (9 points):

HUDM 5130	Meta-analysis (3)
HUDM 5133	Causal inference for program evaluation (3)
ORLJ 5040	Research methods in social psychology (3)

## Quantitative Methods Core (21 points):

MSTM 5030	Topics in probability theory (3)
HUDM 4125	Statistical inference (3)
HUDM 5123	Linear models and experimental design (3)
HUDM 5126	Linear models and regression analysis (3)
HUDM 6026	Computational Statistics (3)
HUDM 6030	Multilevel and longitudinal data analysis (3)
HUDM 6122	Multivariate analysis (3)

## Measurement, Evaluation, and Statistics Electives (18 points):

In consultation with an advisor, students can select courses from the following list, as well as more generally from courses offered at other departments and schools at Columbia University:

HUDM 5058	Choice and decision making (3)
P8120	Analysis of categorical data (3) (at Mailman School of Public Health)
P8121	Generalized linear models (3) (at Mailman School of Public Health)
W4640	Bayesian statistics (3) (at the Columbia Statistics Program)
P8640	Methods in program evaluation (3) (at Mailman School of Public Health)
P8705	Evaluation of health programs (3) (at Mailman School of Public Health)
EDPS 5646	Evaluation of Educational and Social Programs (3)
EDPA 6002	Quantitative Methods for Evaluating Educational Policies and Programs (3)
HUDM 5250	Research practicum in measurement and evaluation (0-4)

## Psychology (minimum of 9 points):

In consultation with an advisor, a group of courses aimed at substantive preparation in the field of psychology.

**Dissertation Advisement and Seminar (minimum of 3 points):**

HUDM 7500*	Dissertation seminar (1-3 each for two semesters, total minimum of 3 points required)
HUDM 8900	Dissertation advisement (0)

**Special Requirements:**

The first two years require full-time study. In addition to the above coursework, an approved empirical paper, successful performance on the certification examination, and completion of an approved doctoral dissertation are required for the Ph.D.

**M.Phil. Degree**

The M.Phil. is an *en passant* degree awarded to those nearing the completion of the Ph.D. degree. Students contact the Office of Doctoral Studies to file for award of the degree.

To receive the M.Phil., the student must satisfactorily complete the following requirements: (1) file an approved “Program Plan of Study” with the Office of Doctoral Studies; (2) file an approved “Statement of the Total Program” with the Office of Doctoral Studies; (3) complete at least six courses with evaluative grades under Teachers College registration; (4) pass the Certification Examination (i.e., Research Methods Examination); (5) complete an approved empirical research paper; (6) complete an approved theoretical research paper; and (7) complete all 75 points of coursework required for the degree. Copies of the “Program Plan of Study,” “Statement of the Total Program”, and both research papers are given to the Department of Human Development for inclusion in the student’s records.

**Transfer Credit**

Relevant courses completed in other recognized graduate schools to a maximum of 30 points, or 45 points if completed in another faculty of Columbia University, may be accepted toward the minimum point requirement for the degree.

Only completed graduate courses with earned grades of B or higher that appear on the student’s transcript from a regionally accredited institution may be considered for transfer credit.

The student files a “Request for an Allocation of Graduate Credit” with the Office of the Registrar. Once the Office of the Registrar determines the eligibility of courses for transfer, final determination of transfer credit is awarded at the discretion of the faculty advisor after evaluation of the courses for content and relevance to program requirements. The Office of the Registrar notifies the student of the results.

**Satisfactory Progress**

Students are expected to make satisfactory progress toward the completion of degree requirements. If satisfactory progress is not maintained, a student may be dismissed from the program. Program faculty annually review each student’s progress. Where there are concerns about satisfactory progress, students will be informed by the program director. If a student is performing below expectations, remedial work within an appropriate timeline may be required. If

satisfactory progress is not maintained, a student may be dismissed from the program.