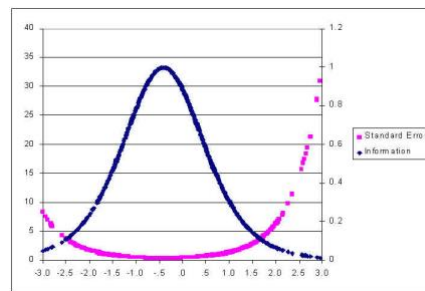


# Measurement, Evaluation, and Statistics

Department of Human Development



## M.S. APPLIED STATISTICS

Major Code: **STAT**

**Teachers College, Columbia University  
2020-2021**

The master's degree in Applied Statistics offers preparation in applied statistics, data analysis and research methods, to prepare students for a number of research and applied positions in educational settings, testing bureaus, business, industry, and government.

The M.S. degree requires at least one year of study. In addition to the satisfactory completion of course work, a culminating project is required.

## Program Requirements

Master of Science – 32 points

### Statistics Requirement (27 points):

The following courses are required (in special circumstances, substitute courses may be approved by the Sponsor):

HUDM 4125	Statistical inference (3)
HUDM 5126	Linear models and regression analysis (3)*
HUDM 5150	Statistical Careers, Communication, and Capstone (3)**
HUDM 6026	Computational statistics (3)

at least one of

HUDM 5123	Linear models and experimental design (3)
HUDM 6030	Multilevel and longitudinal data analysis (3)

and at least one of

HUDM 6055	Latent structure analysis (3)
HUDM 6122	Multivariate analysis (3)

\*Under special circumstances HUDM 5122 may be substituted for HUDM 5126; advisor approval is required.

\*\*This should be taken in the last Fall semester of study. This course includes completion of a culminating project.

Other advanced statistics courses offered by the program or by other departments/schools of Columbia University may be selected, in consultation with the advisor, to complete the 27-point requirement. Examples of candidate courses include: HUDM 5026 Introduction to Data Analysis and Graphics in R, HUDM 5059 Psychological Measurement, HUDM 5124 Multidimensional Scaling and Clustering, HUDM 5133 Causal Inference and Program Evaluation

**Breadth Requirement (6 points):**

At least 2 courses must be taken at Teachers College from outside the Program in Measurement, Evaluation, and Statistics.

**Electives (0-1 points):**

Electives may be taken from any discipline in order to satisfy the 32 point requirement.

**Culminating Experience:**

A special project conducted in consultation with an advisor.

**Transfer Credit**

At least 20 points must be earned in Teachers College courses. The remaining coursework, through Teachers College registration, may be completed in Teachers College or other graduate divisions of the University, but no more than 12 points of graduate credit from other faculties of the University will be credited toward the minimum point requirement. Graduate level courses in the University are numbered from 4000 and above.

For the M.S. degree, no transfer credit is granted for work completed at other universities.

**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 faculty. 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.