STATISTICS, MEASUREMENT, ASSESSMENT, AND RESEARCH TECHNOLOGY, MSED

The M.S.Ed. in Statistics, Measurement, Assessment, and Research Technology (SMART) program is designed to prepare individuals for work in research and assessment organizations, public institutions, and government agencies focused on education, psychology, and related human services fields. The program provides understanding and skills in data collection, management, and processing; measurement theory and test construction; survey design; design and execution of randomized controlled experiments and quasi-experiments; assessment strategies; and statistical analysis and reporting in education. Graduates of the SMART program go on to become researchers and statistical analysts in organizations such as school districts, government agencies, research centers, educational testing companies, and educational research institutes.

For more information: https://www.gse.upenn.edu/academics/programs/education-statistics-measurement-assessment-research-masters (https://www.gse.upenn.edu/academics/programs/education-statistics-measurement-assessment-research-masters/)

Curriculum

10 CUs are required for the Statistics, Measurement, Assessment, and Research Technology (SMART) MSEd Program.

Code	Title	Course Units
Required Courses [1]		
EDUC 6625	Data Processing and Analysis (Fall)	1
EDUC 6680	Evaluation of Policies, Programs and Projects	1
EDUC 6683	Survey Methods & Design (Spring)	1
EDUC 6684	Measurement & Assessment (Fall)	1
EDUC 7667	Regression and Analysis of Variance (Fall or Spring)	1
EDUC 7668	Measurement Theory and Test Construction (Spring)	1
EDUC 8629	Policy Research (Spring)	1
Distribution Requirement [2]		
Select 1 Distribution course (Fall, Spring, or Summer)		1
Elective Courses [3, 4]		
Select 2 elective courses (Fall, Spring, or Summer)		2
Total Course Units		**10**

[1] The student must earn a grade of "B" or better.

[2] Candidates for the MSEd degree must demonstrate knowledge of the field of education beyond the area of specialization. This requirement is met by satisfying the distribution requirement. To meet the distribution requirement students must complete one approved graduate level (5000 or above) GSE course outside the academic division in which they are enrolled, earning a grade of 'B' or better.

[3] Students are required to take two elective courses at the 5000 level or above. These courses can be taken at other Penn schools with permission from the advisor and the school in question. The student must also earn a grade of 'B' or better

[4] The SMART Program of study for the M.S.Ed. degree requires that students have had an introductory statistics course, such as EDUC 6667 or its equivalent, prior to entering the SMART Program. If it is discovered that an entering student is insufficiently prepared in statistics, the student will be required to enroll in EDUC 6667. This will count as an elective in the student's required 10 CUs. The SMART requirement for a student having had EDUC 6667, or its equivalent, prior to program entry applies to all part-time and all full-time students entering the program, whether employed by the university or not.

Comprehensive Examination

Toward the end of completion of course requirements, master's students are required to pass a general examination in the core content of SMART.

Graduation

Anticipated graduation under this plan can be either May, August, or December.

The degree and major requirements displayed are intended as a guide for students entering in the Fall of 2025 and later. Students should consult with their academic program regarding final certifications and requirements for graduation.