

COEHS PhD Policy and Procedure

Research Tools (Appendix A)

1. Research Tools: Quantitative Methods

Quantitative methods involve: (a) measurement, the systematic representation of data by numbers, and (b) statistics, the mathematics of the collection, organization, and interpretation of numerical data. Incorporated within quantitative methods are descriptive and inferential statistics, evaluation, experimental design, measurement, survey research, and other advanced topics.

Demonstration of Skill

Successful completion of two or more of the following Quantitative Methods courses is required to establish skill associated with this research tool.

Course No.	Credit Hours	Title
QUAN 506	4	Inferential Statistics
QUAN 507	4	Multiple Regression
QUAN 508	4	Experimental Design in Educational Research
QUAN 531	3	Introduction to Measurement
QUAN 533	3	Survey Research Methods
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QUAN 580a	3	Advanced Regression Analysis
QUAN 580b	3	Factor Analysis
QUAN 580c	3	Multivariate Methods
QUAN 580d	3	Nonparametric Methods
QUAN 580e	3	Evaluation Methods
QUAN 580f	3	Experimental Design
QUAN 580g	3	Advanced Measurement Theory
QUAN 580i	2-6	Selected Topics

Any combination of courses that equate to a minimum of one academic year of credit in doctoral level statistics, which have been identified as a research tool requirement in an approved graduate program may be used to meet the quantitative methods requirement. QUAN 580 (a-i) are offered as needed. Students should confer with their advisors on taking one of these sections.

2. Research Tools: Qualitative Methods

The paradigm which forms the philosophical basis of qualitative methods stresses an evolving, negotiated view of the social order. This paradigm considers social life as the shared creativity of individuals and looks at the social world as one that is shifting, changing, and dynamic. In using qualitative methods, the educational researcher holistically observes teachers, administrators, pupils, programs, agencies, or districts in an effort to identify the related elements in the school setting. Several research techniques and skills are available to the qualitative researcher; these include interviews, observations, non-verbal communication, ethnographic studies, case studies, evaluation scales, and quasi-experimental investigations.

Demonstration of Skill

Successful completion of two or more of the following courses is required to establish skill in qualitative methods:

Course No.	Credit Hours	Title
EAHE 587	3	Introduction to Qualitative Research
EAHE 594	3	Advanced Qualitative Methods
SOC 514	4	Seminar in Qualitative Research
SPCM 473	--	Performance Ethnography
SPCM 506	--	Ethnography of Communication
SPCM 507	--	Ethnographic Fieldwork
SPCM 508	--	Autoethnography
MCMA 534	--	Qualitative Research Methods in Mass Communication
PHIL 558	--	Phenomenology Research Group

3. Mixed Methods

Mixed Methods, often recognized as the third major research approach, focuses on collecting and analyzing *both* quantitative and qualitative data in a single study or series of studies. Its central premise is that the use of quantitative and qualitative approaches in combination provides a better understanding of some research problems than either approach would alone.

Course No.	Credit Hours	Title
CI 592	3	Mixed Methods in Educational Research

4. Research Tools: Historiography

Historiography is the study of the discipline of history. This study can include the scientific methods of historical research, a review of the historical paradigm with its attendant use of chronology, a concern for the variant philosophies of history, a review of historical literature, the contributions of particular historians in the development of the discipline, and the consideration of historical writing as both an art form and as a humanistic expression.

Demonstration of Skill

A student should successfully complete a minimum of two courses to establish skill in this research tool:

Course No.	Credit Hours	Title
HIST 500	3	Historian's Craft
HIST 501	3	Recent Historiography
EAHE 530	3	Historical Research in Education

5. Research Tools: Other Research Tools

A student and his/her committee may wish to propose a research tool not mentioned in the foregoing list. Such persons should prepare a proposal that includes: (a) definition of research tool; and (b) the minimum two courses or equivalent, which establish skill in the research tool. The proposal would then be submitted to the Dean of the College of Education and Human Services for consideration and approval. If approved by the Dean, that tool would then become an approved tool available to all students in the Ph.D. program in Education.