

CES Doctoral Research Requirements

PhD students in Counselor Education & Supervision should complete introductory courses in both quantitative and qualitative data analysis. Beyond each introductory course on these areas, students will also complete up **to 6 additional s.h. in any of these two research tracks**. These courses in addition to the CES-specific required research courses complete the PhD research requirements for the Counselor Education and Supervision PhD program. Students should consult with their advisor about their courses. Total research requirements = XX s.h.***

CES Required Research Courses (17 s.h.)

- CSED:6394 - Internship in Research (ME/ER) (3 s.h.)
- CSED:7460 - Seminar: Research in Counseling (3 s.h.)
- CSED:7458 - Seminar: Issues and Trends in Counseling Research (4 s.h.)
- PSQF:6243 - Intermediate Statistical Methods (4 s.h.)
 - PSQF:4143 - Introduction to Statistical Methods or PSQF:6242 Selected Applications of Statistics (either of these courses can be *taken prior* to Intermediate Statistical Methods if needed)
 - PSQF:6243 is a prerequisite for any other classes in the Adv. Quantitative track. See below
- CSED:7338 - Essentials of Qualitative Inquiry or Collegiate Equivalent (3 s.h.)
 - CSED:7338 or Collegiate Equivalent is a prerequisite for any other classes taken in the Adv. Qualitative track. See below.
 - Collegiate Equivalent can include EPLS:7373 Qualitative Research Design and Methods, EDTL:7070 Qualitative Research Methods.

Quantitative Research Track

Adv. Quantitative Track (Minimum of 6 s.h. from courses listed below)

- PSQF: 6209 Survey Research and Design (also cross listed as EPLS:6209)
- EPLS:6370 Quantitative Methods for Policy Analysis
- PSQF:6220 Quantitative Educational Research Methodologies
- PSQF:6241 Quantitative Policy Analysis for Practitioners
- PSQF:6244 Correlation and Regression
- PSQF:6265 Program Evaluation**
- PSQF:6246 Design of Experiments
- PSQF:6247 Nonparametric Statistical Methods
- PSQF:6248 Research Synthesis and Meta-Analysis (Prerequisites: PSQF:6246 or PSQF:6244)
- PSQF:6249 Factor Analysis and Structural Equation Models
- PSQF:6252 Introduction to Multivariate Statistical Methods
- PSQF:6254 Causal Inference and Observational Designs (Prerequisites: PSQF:6220 and PSQF:6244 and PSQF:6246)
- PSQF:6255 Construction and Use of Evaluation Instruments (Prerequisites: PSQF:4143 and PSQF:6257)
- PSQF:6258 Theory and Technique in Educational Measurement (Prerequisites: PSQF:6243 and PSQF:6257)
- PSQF:6259 Scaling Methods (Prerequisites: PSQF:6262. Corequisites: PSQF:6249 and PSQF:6252)

- PSQF:6262 Item Response Theory (Prerequisites: PSQF:6243 and PSQF:6257)
- PSQF:6270 Generalized Linear Models*
- PSQF:6271 Longitudinal Multilevel Models*
- PSQF:6272 Clustered Multilevel Models*
- PSQF:7476 Research in Educational Measurement and Statistics (Prerequisites: PSQF:6243 and PSQF:6258 or PSQF:6262)
- EPLS:5253 Research, Assessment, and Evaluation in Higher Education
- EPLS:7392 Mixed Methods Research**

Qualitative Research Track

Adv. Qual. Track (Minimum of 6 s.h. from courses listed below)

- EPLS:5240 Topics in Education: Introduction to Historical Methodology
- PSQF:6265 Program Evaluation**
- EDTL:6267 Seminar Current Issues in Art Education (Qualitative methods)
- EDTL:7071 Critical Discourse Analysis Ed Research
- EDTL:7072 Advanced Qualitative Data Analysis
- EDTL:7073 Ethnographic Methods, Theories, and Texts
- EDTL:7751 Advanced Qualitative Data Analysis (Prerequisites: EPLS:7373 or EDTL:7070 or PSQF:7331 or CSED:7338)
- EPLS:7392 Mixed Methods Research**
- EDTL:7953 Single Subject Design Research (also cross listed as: EPLS:7392)
- EDTL:7774 Qualitative Research with Computer-Aided Qualitative Data Analysis Software

** no prerequisites stated however, PSQF department has the following statement: "Recommendations: PSQF:6243 and familiarity with general linear models for cross-sectional data (multiple linear regression, analysis of variance)."*

***PSQF:6265 Program Evaluation and EPLS:7392 Mixed Methods Research can count for either the Adv. Qual or Adv. Quant track. PSQF:6265 Program Evaluation is also a CSED program requirement.*

****Total number of hours will be different if students choose classes from the Quant track that require 4 semester hours vs. most Qual track courses requiring 3 semester hours.*