

EDL 7190

Research Design in Education

Syllabus

This syllabus is available at www.lesn.appstate.edu/olson

Catalog Description: This course is designed to provide doctoral students with an in-depth analysis of the methods and procedures of research in education. Topics will include conceptualizing educational research, writing research proposals, constructing measurement instruments, collecting and analyzing qualitative and quantitative data, and drawing inferences. Students who successfully complete the course will be able to make correct decisions regarding appropriate designs and methods for investigating different research questions, and will be able to plan and implement a research project for their dissertation.

Textbook: Elazar J. Pedhazur and Liora Pedhazur Schmelkin (1991). *Measurement, Design, and Analysis: An Integrated Approach*. Hillsdale, NJ: Lawrence Erlbaum Associates. This is an excellent source book for quantitative research in education and the social sciences. While it may appear somewhat dated I can assure you that the material covered in the book continues to be relevant. The chapters in the book cover measurement (theory, reliability, validity, and a variety of measurement approaches in social sciences), quantitative research design (philosophy, variable definition, threats to internal and external validity, sampling, and the major genres on quantitative research--experimental, quasi-experimental, and non-experimental), and statistical analysis (regression analysis, qualitative data analysis, and various types of multivariate analysis, including structural equation modeling). Some newer statistical approaches, such as multi-level modeling, log-linear analysis, and propensity scoring are not included, but we will read some articles dealing with these topics.

If you conduct quantitative inquiry you need this book!

This book can sell new for over \$125. However, there are several web-stores where you can purchase it at considerable savings. Here are just a couple of places. You can probably find others.

Abe Books has copies starting at \$50

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Amazon has NEW copies for \$60 or less

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You can also find the book at Half.com for \$60 or less.

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Additional Readings: In addition to the textbook, several illustrative readings from scholarly research journals will be assigned. Most of these can be accessed easily by clicking on the Index to Journal Articles at left.